

LLNL Livermore Site Second Quarter 2012 Self-Monitoring Report

This quarterly report presents the second quarter 2012 self-monitoring data for the ground water and soil vapor treatment facilities at the Lawrence Livermore National Laboratory (LLNL) Livermore Site. The volumes of ground water and soil vapor treated, and volatile organic compound (VOC) mass removed during the second quarter of 2012 are presented in Tables 1 and 2, respectively. An historical summary of VOC volume and mass removed are presented in Tables 3 and 4, respectively.

Attachment A presents results of ground water treatment facility and extraction well (ground water and soil vapor) VOC, and chromium analyses (Tables A-1 through A-4). During the second quarter of 2012, all effluent sample analytical results were within acceptable discharge limits.

Self-monitoring reports for all treatment facilities are presented in Attachment B. Monthly volumes of ground water extracted are shown in Attachment B; however, instantaneous flow rates are not shown for wells that are now only used for sampling and are not continuously pumped. The monthly volume shown for these wells is the quantity of water evacuated for sampling purposes.

A map showing Livermore Site treatment areas and treatment facility locations, and ground water elevation contour maps showing hydraulic capture zones for hydrostratigraphic units (HSUs) 1B, 2, 3A, 3B, 4, and 5, are presented in Attachment C. The contour maps for the individual HSUs are based on data collected during the second quarter of 2012.

A follow-on sampling plan for EPA Method 625 compounds was developed and executed during the second quarter to resample locations where bis(2-ethylhexyl)phthalate had been detected during the first quarter. Bis(2-ethylhexyl)phthalate was detected in the PTU11-I and GTU03-I January 2012 influent samples at concentrations of 10 µg/L and 53 µg/L, respectively. On April 4, 2012, influent and effluent samples were collected from PTU11, followed by influent and effluent samples being collected from GTU03 on April 5, 2012. Receiving water location (TFC-R003), which is down gradient of TFB-R002 was also sampled on April 5, 2012, due to the anomalous detection of bis(2-ethylhexyl)phthalate at the receiving water location TFB-R002 reported during the first quarter. Field blanks were poured at the influent and receiving water locations and, collocated samples were collected and submitted to a different analytical laboratory for EPA Method 625 analysis. The collection of field blanks and collocated samples were taken as a precautionary measure due to the elusiveness of bis(2-ethylhexyl)phthalate and the frequent difficulty in determining the source of the contaminant. In conclusion, no EPA Method 625 compounds were detected in any of the samples collected and submitted for analyses this quarter. The sampling effort for EPA 602 and 625 compounds confirmed our previous analytical results that these constituents are not present in treatment facility influent. Hence, EPA 602 and 625 sampling and analysis will not be performed on an annual basis.

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Table 1. Volumes of ground water and soil vapor extracted and treated at the Livermore Site, April through June 2012.

Treatment Area^a	Month	Volume of ground water extracted (Kgal)^b	Volume of vapor extracted (Kcf)^b
TFA	April	9,761	-
	May	9,018	-
	June	9,335	-
TFB	April	2,440	-
	May	2,150	-
	June	2,562	-
TFC	April	3,892	-
	May	4,059	-
	June	3,746	-
TFD	April	5,061	1,482
	May	6,604	1,571
	June	6,481	1,299
TFE	April	2,131	1,761
	May	2,154	1,429
	June	1,960	1,130
TFG	April	661	-
	May	647	-
	June	610	-
TFH	April	957	1,885
	May	848	2,085
	June	805	2,071
TOTAL^c		75,882	14,713

^a Totals include ground water and soil vapor extracted from the following facilities:

TFA area: TFA, TFA-E, TFA-W

TFB area: TFB

TFC area: TFC, TFC-E, TFC-SE

TFD area: TFD, TFD-E, TFD-HPD, TFD-S, TFD-SE, TFD-SS, TFD-W, VTFD-ETCS, VTFD-HS

TFE area: TFE-E, TFE-HS, TFE-NW, TFE-SE, TFE-SW, TFE-W, VTFE-ELM, VTFE-HS

TFG area: TFG-1, TFG-N

TFH area: TF406, TF406-NW, TF518-N, TF518-PZ, TF5475-1, TF5475-2, TF5475-3, VTF406-HS, VTF511, VTF518-PZ, VTF5475

TFF started operation in February 1993 for fuel hydrocarbon remediation. In August 1995, the regulatory agencies agreed that the vadose zone remediation was complete, and in October 1996 a No Further Action status was granted for the ground water.

^b Totals are derived from individual extraction wells shown in Attachment B

^c Rounded number

Kcf = thousands of cubic feet

Kgal = thousands of gallons

Table 2. VOC mass removed at the Livermore Site, April through June 2012.

Treatment Area^a	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) ^b
TFA	1.1	-	1.1
TFB	0.6	-	0.6
TFC	1.2	-	1.2
TFD	5.9	0.6	6.5
TFE	2.2	1.1	3.3
TFG	0.2	-	0.2
TFH	0.8	5.3	6.1
TOTAL^b	12.0	7.0	19.0

Table 3. Historical summary of volumes of water and soil vapor removed at the Livermore Site through June 2012.

Treatment Area^a	Volume of ground water extracted (Mgal)	Volume of vapor extracted (Mcf)
TFA	1,914	-
TFB	452	-
TFC	502	-
TFD	1,038	103
TFE	377	167
TFG	84	-
TFH	167	243
TOTAL^b	4,534	513

Table 4. Historical summary of VOC mass removed from water and soil vapor at the Livermore Site through June 2012.

Treatment Area^a	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) ^b
TFA	209	-	209
TFB	81	-	81
TFC	106	-	106
TFD	852	95	947
TFE	222	151	373
TFG	12	-	12
TFH	39	1,246	1,285
TOTAL^b	1,521	1,492	3,013

^a Refer to Table 1 footnote for facilities in each treatment facility area.^b Rounded number.

Abbreviations for Tables 2, 3 and 4:

kg = Kilograms.

Mcf = millions of cubic feet.

Mgal = millions of gallons.

VOC = Volatile organic compound.

Attachment A

VOC and Chromium Analyses

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFA													
TFA-I001	02-APR-12	E601	<0.5	0.94	0.9	<0.5	1.2	<1	<0.5	6.5	<0.5	0.67	<0.5
TFA-I001	01-MAY-12	E601	<0.5	0.92	0.85	<0.5	1.2	<1	<0.5	6.3	<0.5	0.65	<0.5
TFA-I001	01-JUN-12	E601	<0.5	0.93	0.85	<0.5	1.2	<1	<0.5	6.4	<0.5	0.66	<0.5
TFA-E001	02-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	01-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E													
W-254	02-APR-12	E601	<0.5	<0.5	<0.5	<0.5	0.51	<1	<0.5	37	<0.5	0.96	<0.5
STU06-I	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	0.62	<1	<0.5	39	<0.5	1.1	<0.5
STU06-I	04-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	0.72	<1	<0.5	40	<0.5	1	<0.5
STU06-E	02-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	04-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-W^a	---	---	--	--	--	--	--	--	--	--	--	--	--
TFB^b													
TFB-I002	03-APR-12	E601	0.5	1.9	<0.5	<0.5	1.2	<1	2.4	0.99	<0.5	11	<0.5
TFB-I002	01-MAY-12	E601	0.59	2.2	<0.5	<0.5	1.4	<1	3.2	1.3	<0.5	14	<0.5
TFB-I002	04-JUN-12	E601	0.66	2.7	<0.5	<0.5	1.6	<1	4	1.6	<0.5	17	<0.5
TFB-E002	03-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	02-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	04-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC													
TFC-I003	04-APR-12	E601	<0.5	0.87	<0.5	<0.5	0.57	<1	8.6	2.7	<0.5	9	<0.5
TFC-I003	01-MAY-12	E601	<0.5	0.84	<0.5	<0.5	0.6	<1	8.8	2.8	<0.5	9.2	<0.5
TFC-I003	04-JUN-12	E601	<0.5	0.87	<0.5	<0.5	0.64	<1	9	2.8	<0.5	9.3	<0.5
TFC-E003	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	04-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC-E													
MTU1-I	05-APR-12	E601	<0.5	10	<0.5	<0.5	0.75	<1	14	0.65	<0.5	7.3	3.4
MTU1-I	01-MAY-12	E601	<0.5	12	<0.5	<0.5	0.77	<1	9.2	0.58	<0.5	7.4	3.3
MTU1-I	04-JUN-12	E601	<0.5	13	<0.5	<0.5	0.83	<1	10	0.53	<0.5	7.9	3.7
MTU1-E	05-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU1-E	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	0.97	<0.5
MTU1-E	04-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-SE													
PTU1-I	03-APR-12	E601	<0.5	7.1	<0.5	<0.5	2.1	<1	15	0.64	<0.5	15	1
PTU1-I	01-MAY-12	E601	<0.5	6.9	<0.5	<0.5	2.1	<1	15	0.66	<0.5	15	0.93
PTU1-I	04-JUN-12	E601	<0.5	7.4	<0.5	<0.5	2.2	<1	15	0.66	<0.5	16	0.94
PTU1-E	03-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU1-E	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU1-E	04-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD													
TFD-I004	19-APR-12	E601	1.2	1.6	<0.5	<0.5	<0.5	<1	<0.5	0.69	<0.5	26	28
TFD-I004	01-MAY-12	E601	2.4	2.2	<0.5	<0.5	0.86	<1	0.72	1.5	<0.5	62	21
TFD-I004	01-JUN-12	E601	2.3	2.1	<0.5	<0.5	0.9	<1	0.67	1.7	<0.5	60	20
TFD-E004	19-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E004	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E004	01-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E^{cd}													
PTU8-I	31-MAY-12	E601	4.4	2.2	<0.5	<0.5	1.6	<1	<0.5	2.8	<0.5	91	0.94
PTU8-I	05-JUN-12	E601	3.4	1.6	<0.5	<0.5	1.8	<1	<0.5	3.3	<0.5	64	0.78
PTU8-I	11-JUN-12	E601	3	1.9	<0.5	0.82	7.3	<1	<0.5	7.9	<0.5	99	0.83
PTU8-E	31-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	05-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-HPD^e													
TFD-S													
PTU2-I	12-APR-12	E601	0.85	2	<0.5	<0.5	4	<1	1.2	6.4	<0.5	55	<0.5
PTU2-I	07-MAY-12	E601	0.7	1.8	<0.5	<0.5	3.8	<1	1.1	6	<0.5	49	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-S (cont.)													
PTU2-I	07-JUN-12	E601	0.88	2	<0.5	<0.5	4.1	<1	1.3	6.1	<0.5	55	<0.5
PTU2-E	12-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	07-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	07-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SE													
PTU11-I	04-APR-12	E601	<0.5	3.3	0.7	1.3	8	<1	1	31	<0.5	86	<0.5
PTU11-I	01-MAY-12	E601	<0.5	3	0.72	1.3	8.8	<1	1	33	<0.5	87	<0.5
PTU11-I	04-JUN-12	E601	0.63	4.6	0.71	1.5	10	<1	1.7	33	<0.5	95	<0.5
PTU11-E	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	04-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SS													
PTU12-I	12-APR-12	E601	1.9	1.9	<0.5	1.5	6.9	<1	0.53	15	<0.5	100	11
PTU12-I	07-MAY-12	E601	1.8	2.2	0.68	2.2	9.9	<1	0.57	20	<0.5	110	6
PTU12-I	08-JUN-12	E601	1.8	2.2	0.74	2.2	11	<1	0.57	21	<0.5	120	5.6
PTU12-E	12-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	07-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	08-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-W													
PTU6-I	04-APR-12	E601	<0.5	4.3	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	4.8	47
PTU6-I	02-MAY-12	E601	<0.5	4.4	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.1	46
PTU6-I	14-JUN-12	E601	<0.5	4.4	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5	47
PTU6-E	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	02-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	14-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-E													
PTU3-I	03-APR-12	E601	<0.5	2.5	<0.5	<0.5	8.8	<1	7.1	11	<0.5	65	<0.5
PTU3-I	01-MAY-12	E601	<0.5	2.4	<0.5	<0.5	8.3	<1	7.3	9.8	<0.5	60	<0.5
PTU3-I	04-JUN-12	E601	<0.5	2.3	<0.5	<0.5	7.9	<1	7.4	9.2	<0.5	58	<0.5
PTU3-E	03-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-E (cont.)													
PTU3-E	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU3-E	04-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-HS													
W-2105	05-APR-12	E601	<0.5	1.2	<0.5	<0.5	3	2.7	5.9	17	<0.5	360	<0.5
GTU07-I	05-APR-12	E601	<0.5	1.2	<0.5	<0.5	3.2	2.8	5.6	15	<0.5	360	<0.5
GTU07-I	02-MAY-12	E601	<0.5	1.1	<0.5	<0.5	3.1	3.1	5.4	14	<0.5	300	<0.5
GTU07-I	06-JUN-12	E601	<0.5	1.2	<0.5	<0.5	3.2	3.4	5.6	15	<0.5	300	<0.5
GTU07-E	05-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU07-E	02-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU07-E	06-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-NW													
PTU9-I	12-APR-12	E601	<0.5	1.2	<0.5	<0.5	<0.5	<1	0.98	<0.5	<0.5	12	<0.5
PTU9-I	07-MAY-12	E601	<0.5	1.2	<0.5	<0.5	<0.5	<1	1	<0.5	<0.5	12	<0.5
PTU9-I	08-JUN-12	E601	<0.5	1.2	<0.5	<0.5	<0.5	<1	1.1	<0.5	<0.5	12	<0.5
PTU9-E	12-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	07-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	08-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-SE													
W-359	03-APR-12	E601	4.2	1.4	<0.5	<0.5	19	<1	6.7	8.9	<0.5	240	1.2
MTU04-I	01-MAY-12	E601	4.3	1.5	<0.5	<0.5	21	<1	6.6	9.6	<0.5	250	1.2
MTU04-I	04-JUN-12	E601	4.1	1.5	<0.5	<0.5	21	<1	6.3	10	<0.5	260	1.1
MTU04-E	03-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU04-E	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU04-E	04-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-SW													
MTU03-I	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	1.5	1.4	5.8	1	<0.5	13	<0.5
MTU03-I	02-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	1.5	1.5	5.3	1.1	<0.5	13	<0.5
MTU03-I	14-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	1.6	1.6	4.2	1.1	<0.5	14	<0.5
MTU03-E	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	02-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	14-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-W													
MTU05-I	04-APR-12	E601	<0.5	1	<0.5	<0.5	1.9	1	14	6.1	<0.5	29	0.51
MTU05-I	02-MAY-12	E601	<0.5	1.1	<0.5	<0.5	2.1	1	16	6.8	<0.5	31	0.56
MTU05-I	14-JUN-12	E601	<0.5	1.1	<0.5	<0.5	2.1	<1	16	6.8	<0.5	31	0.58
MTU05-E	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	02-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	14-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-1													
W-1111	11-APR-12	E601	2.7	10	<0.5	<0.5	0.86	<1	<0.5	1.1	<0.5	3.9	<0.5
GTU01-I	08-MAY-12	E601	2.7	10	<0.5	<0.5	0.9	<1	<0.5	1	<0.5	4	<0.5
GTU01-I	06-JUN-12	E601	2.7	11	<0.5	<0.5	0.97	<1	0.51	1.3	<0.5	4.2	<0.5
GTU01-E	11-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	08-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	06-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-N													
MTU02-I	11-APR-12	E601	<0.5	1.5	<0.5	<0.5	1	<1	1	17	<0.5	5.2	<0.5
MTU02-I	08-MAY-12	E601	<0.5	1.6	<0.5	<0.5	1.1	<1	1.1	17	<0.5	5.3	<0.5
MTU02-I	06-JUN-12	E601	<0.5	1.7	<0.5	<0.5	1.2	<1	1.2	17	<0.5	5.5	<0.5
MTU02-E	11-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	08-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	06-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF406													
PTU5-I	04-APR-12	E601	<0.5	0.65	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	4	<0.5
PTU5-I	02-MAY-12	E601	<0.5	0.7	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	4.1	<0.5
PTU5-I	14-JUN-12	E601	<0.5	0.66	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	4.4	<0.5
PTU5-E	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	02-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	14-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF406-NW													
W-1801	04-APR-12	E601	<0.5	1.2	<0.5	<0.5	<0.5	<1	4.3	0.65	<0.5	21	<0.5
GTU03-I	30-MAY-12	E601	<0.5	1.6	<0.5	<0.5	<0.5	<1	4.7	0.71	<0.5	20	<0.5
GTU03-I	07-JUN-12	E601	<0.5	1.4	<0.5	<0.5	<0.5	<1	5	0.78	<0.5	23	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TF406-NW (cont.)													
GTU03-E	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU03-E	30-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU03-E	07-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF518-N^f	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-1^g													
W-1302-2	21-JUN-12	E601	2.4	46	1.7	6.7	23	1.6	7.1	63	<0.5	440	<0.5
TF5475-2													
GTU09-I	18-APR-12	E601	2.2	22	0.76	3	19	<1	8.6	39	<0.5	290	<0.5
GTU09-I	01-MAY-12	E601	2.1	21	0.72	2.8	18	<1	7.8	37	<0.5	280	<0.5
GTU09-I	04-JUN-12	E601	2.2	22	0.76	2.8	19	<1	7.6	40	<0.5	320	<0.5
GTU09-E	18-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU09-E	01-MAY-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU09-E	04-JUN-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF5475-3^h	---	---	--	--	--	--	--	--	--	--	--	--	--

Notes on following page.

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

^a TFA-W effluent is discharged to the Livermore Water Reclamation Plant in accordance with Permit #151OG (2006-2008). The discharge limit for Total Toxic Organics is 1.0 mg/L.

Well W-404 is sampled quarterly. All other operations have been suspended pending the extension of the TFA Arroyo Seco pipeline.

^b TFB had multiple samples taken during the month of May due to the testing and verification phase of the REVAL/wellfield expansion project.

^c TFD-E did not operate during the month of April due to equipment assembly and installation for the REVAL project.

^d TFD-E had multiple samples taken during the month of June due to the testing and verification phase of the REVAL project.

^e TFD-HPD has been modified to operate as a circulation cell to perform in situ bioremediation of contaminated ground water and sediments.

^f TF518-N did not operate during this reporting period due to mixed waste disposition issues.

^g TF5475-1 did not operate during this reporting period due to mixed waste disposition issues.

^h TF5475-3 did not operate during this reporting period due to mixed waste disposition issues.

Notes:

CCl₄ = Carbon tetrachloride

CHCl₃ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFA													
W-109	12-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	0.5	1.8	<0.5	<0.5	<0.5
W-262	12-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
W-408	12-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.61	<0.5	<0.5	<0.5
W-415	12-APR-12	E601	<0.5	1.3	0.66	<0.5	1.3	<1	<0.5	12	<0.5	0.97	<0.5
W-457	12-APR-12	E601	<0.5	<0.5	0.98	<0.5	0.94	<1	<0.5	6.4	<0.5	<0.5	<0.5
W-518	12-APR-12	E601	<0.5	<0.5	8.1	<0.5	3.4	<1	<0.5	3.5	<0.5	<0.5	<0.5
W-522	12-APR-12	E601	<0.5	<0.5	1.9	<0.5	1.2	<1	<0.5	3.6	<0.5	<0.5	<0.5
W-605	12-APR-12	E601	<0.5	0.6	0.89	<0.5	1.1	<1	<0.5	17	<0.5	0.88	<0.5
W-614	12-APR-12	E601	<0.5	0.52	<0.5	<0.5	<0.5	<1	<0.5	6	<0.5	<0.5	<0.5
W-712	12-APR-12	E601	2.9	3	1.2	<0.5	3.5	<1	<0.5	2	<0.5	3.4	<0.5
W-714	12-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	8.1	<0.5	<0.5	<0.5
W-903	12-APR-12	E601	<0.5	<0.5	1.2	<0.5	0.86	<1	<0.5	4.7	<0.5	<0.5	<0.5
W-904	12-APR-12	E601	<0.5	<0.5	0.75	<0.5	1	<1	<0.5	6.4	<0.5	<0.5	<0.5
W-1001	12-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
W-1004	12-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	2.5	<0.5	<0.5	<0.5
W-1009	12-APR-12	E601	1.1	5.2	0.77	<0.5	3	<1	0.61	12	<0.5	2	<0.5
TFA-E													
W-254	02-APR-12	E601	<0.5	<0.5	<0.5	<0.5	0.51	<1	<0.5	37	<0.5	0.96	<0.5
TFA-W^a													
W-404 ^b	26-JAN-12	E601	<0.5	<0.5	1.1	<0.5	1.8	<1	<0.5	10	<0.5	0.53	<0.5
TFB													
W-357	10-APR-12	E601	1.4	2.8	<0.5	<0.5	1.4	<1	3.8	1.2	<0.5	32	<0.5
W-610	10-APR-12	E601	<0.5	<0.5	<0.5	<0.5	1.3	<1	1.8	0.8	<0.5	1.8	<0.5
W-620	10-APR-12	E601	<0.5	1.2	<0.5	<0.5	1.2	<1	2.2	1.2	<0.5	4.4	<0.5
W-621	10-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	1	<0.5	<0.5	2.6	<0.5
W-655	10-APR-12	E601	<0.5	0.63	<0.5	<0.5	<0.5	<1	4.7	<0.5	<0.5	1.7	<0.5
W-704	10-APR-12	E601	0.6	3.7	<0.5	<0.5	1.9	<1	5.5	2.9	<0.5	19	<0.5
W-1423	10-APR-12	E601	0.8	4.9	<0.5	<0.5	3.1	<1	3.3	1.9	<0.5	9.3	<0.5
W-2501	10-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	0.63	<0.5	<0.5	6.6	<0.5
W-2502	10-APR-12	E601	0.53	3.7	<0.5	<0.5	1.4	<1	<0.5	<0.5	<0.5	1.5	<0.5
TFC													
W-701	04-APR-12	E601	<0.5	1.8	<0.5	<0.5	1.3	<1	25	3.8	<0.5	20	<0.5
W-1015	04-APR-12	E601	<0.5	0.52	<0.5	<0.5	0.72	<1	1.9	0.99	<0.5	4.4	<0.5
W-1102	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	3	<0.5	<0.5	1.5	<0.5
W-1103	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	1.3	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC (cont.)													
W-1104	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	1.7	3.1	<0.5	5.5	<0.5
W-1116	04-APR-12	E601	<0.5	1.2	<0.5	<0.5	<0.5	<1	6.4	3.7	<0.5	7.6	<0.5
TFC-E													
W-368	01-MAY-12	E601	<0.5	7.7	<0.5	<0.5	0.51	<1	19	2.5	<0.5	13	4.6
W-413	01-MAY-12	E601	<0.5	14	<0.5	<0.5	0.85	<1	9.3	<0.5	<0.5	7.3	3.7
TFC-SE													
W-1213	03-APR-12	E601	<0.5	5.7	<0.5	<0.5	2.4	<1	9.4	<0.5	<0.5	14	<0.5
W-2201	03-APR-12	E601	<0.5	7.6	<0.5	<0.5	1.9	<1	18	0.78	<0.5	15	1.2
TFD													
W-351	20-APR-12	E601	23	4.1	<0.5	0.9	5.5	<1	4.5	6.7	<0.5	450	1.3
W-653	20-APR-12	E601	27	7.8	<0.5	<0.5	0.97	1.2	3.9	0.91	<0.5	810	<0.5
W-906	20-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	2.3	<0.5
W-907-2	20-APR-12	E601	<0.5	3.6	<0.5	<0.5	2.2	<1	0.84	4.2	<0.5	48	<0.5
W-2011	20-APR-12	E601	0.75	0.94	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	12	<0.5
W-2101	20-APR-12	E601	4.6	2.1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	160	<0.5
W-2102	20-APR-12	E601	33	11	<0.5	<0.5	0.81	<1	5.2	0.82	<0.5	1100	0.67
W-1206	20-APR-12	E601	0.7	0.77	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	14	0.68
W-1208	20-APR-12	E601	2.1	2.1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	43	43
TFD-E													
W-2006 ^b	05-MAR-12	E601	<0.5	1.4	2	7.2	45	<1	<0.5	18	<0.5	190	<0.5
W-1301 ^b	05-MAR-12	E601	<0.5	0.69	<0.5	<0.5	5.8	<1	<0.5	12	<0.5	39	<0.5
W-1303 ^b	04-JAN-12	E601	4.2	3	1.4	5.3	9.2	2.1	<0.5	11	<0.5	130	4.8
W-1306 ^b	05-MAR-12	E601	2.8	3.7	<0.5	<0.5	1	<1	<0.5	4.8	<0.5	100	<0.5
W-1307 ^b	04-JAN-12	E601	3.7	0.9	<0.5	<0.5	0.5	<1	<0.5	0.7	<0.5	66	<0.5
W-1550 ^b	05-MAR-12	E601	2.2	2.3	<0.5	<0.5	1.4	<1	<0.5	3.9	<0.5	47	<0.5
W-2203 ^b	04-JAN-12	E601	12	2.6	<0.5	<0.5	2.5	<1	2.7	6.9	<0.5	93	<0.5
TFD-HPD													
W-1254	02-MAY-12	E601	1.5	0.52	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	42	<0.5
W-1650 ^b	12-MAR-12	E601	1.7	1.4	<0.5	<0.5	<0.5	<1	0.92	<0.5	<0.5	110	<0.5
W-1653 ^b	12-MAR-12	E601	0.69	1.9	<0.5	<0.5	<0.5	<1	<0.5	0.73	<0.5	100	<0.5
W-1655 ^b	12-MAR-12	E601	<0.5	2	<0.5	<0.5	<0.5	<1	<0.5	2.5	<0.5	68	<0.5
W-1657 ^b	12-MAR-12	E601	5.8	3	<0.5	<0.5	<0.5	<1	2.3	<0.5	<0.5	540	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-S													
W-1503	12-APR-12	E601	1.7	1.9	<0.5	<0.5	1.8	<1	0.57	2.4	<0.5	54	<0.5
W-1504	12-APR-12	E601	<0.5	1.4	<0.5	<0.5	8.9	1.4	2.6	14	<0.5	76	<0.5
W-1510	12-APR-12	E601	<0.5	2.8	<0.5	<0.5	1.8	<1	<0.5	3.2	<0.5	24	<0.5
TFD-SE													
W-314	01-MAY-12	E601	<0.5	1.8	0.5	<0.5	2.4	<1	0.82	4.3	<0.5	33	<0.5
W-2005	01-MAY-12	E601	<0.5	0.7	<0.5	<0.5	2.2	<1	<0.5	19	<0.5	24	<0.5
W-1308	01-MAY-12	E601	<0.5	1.4	0.98	2.5	14	<1	<0.5	90	<0.5	99	<0.5
W-1403	01-MAY-12	E601	1.8	14	1.3	4.6	33	<1	3.1	73	<0.5	290	<0.5
W-1904	12-APR-12	E601	<0.5	<0.5	<0.5	<0.5	17	<1	<0.5	60	<0.5	30	<0.5
SIP-ETC-201	12-APR-12	E601	<0.5	0.85	3.3	1.2	74	<1	<0.5	390	<0.5	250	<0.5
TFD-SS													
W-1523	12-APR-12	E601	3.3	2.4	<0.5	1	7.5	<1	1.2	13	<0.5	100	<0.5
W-1601	12-APR-12	E601	3.7	3.8	1.5	5.7	27	1.1	1.5	91	<0.5	260	<0.5
W-1602	12-APR-12	E601	<0.5	1.4	<0.5	<0.5	0.53	<1	<0.5	1.2	<0.5	12	7.4
W-1603	12-APR-12	E601	1.7	1.9	0.59	1.8	7	<1	<0.5	14	<0.5	94	16
TFD-W													
W-1215	04-APR-12	E601	<0.5	6.4	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	4.3	20
W-1216	04-APR-12	E601	<0.5	4.1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	3.5	37
W-1902	04-APR-12	E601	0.56	3.1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	6	67
TFE-E													
W-566	03-APR-12	E601	0.53	3	<0.5	<0.5	4.1	<1	7.7	3.5	<0.5	43	<0.5
W-1109	03-APR-12	E601	<0.5	0.61	<0.5	<0.5	27	<1	5.2	51	<0.5	180	<0.5
W-1903	03-APR-12	E601	<0.5	<0.5	<0.5	<0.5	25	<1	7	25	<0.5	45	<0.5
W-1909 ^b	14-NOV-11	E601	<0.5	<0.5	<0.5	<0.5	9.1	1.1	<0.5	5.4	<0.5	6.5	<0.5
W-2305	06-JUN-12	E601	<0.5	1.8	0.56	<0.5	53	<1	15	72	<0.5	200	<0.5
TFE-HS													
W-2105	05-APR-12	E601	<0.5	1.2	<0.5	<0.5	3	2.7	5.9	17	<0.5	360	<0.5
TFE-NW													
W-1211	12-APR-12	E601	<0.5	1.4	<0.5	<0.5	<0.5	<1	1.2	<0.5	<0.5	8.7	<0.5
W-1409	12-APR-12	E601	<0.5	<0.5	<0.5	<0.5	0.7	<1	<0.5	1.2	<0.5	21	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ -<	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-SE													
W-359	03-APR-12	E601	4.2	1.4	<0.5	<0.5	19	<1	6.7	8.9	<0.5	240	1.2
TFE-SW													
W-1518	04-APR-12	E601	<0.5	<0.5	<0.5	<0.5	1.5	1.4	5.9	1	<0.5	12	<0.5
W-1520	04-APR-12	E601	13	8.7	<0.5	4.6	2.9	2.4	<0.5	17	<0.5	350	<0.5
W-1522	26-APR-12	E601	2.6	3	1	<0.5	7.3	16	1.9	1.7	<0.5	88	<0.5
TFE-W													
W-292	04-APR-12	E601	<0.5	0.8	<0.5	<0.5	0.99	2.6	1.4	1.2	<0.5	19	<0.5
W-305	04-APR-12	E601	<0.5	1.2	<0.5	<0.5	2.5	<1	21	9.1	<0.5	36	0.78
TFG-1													
W-1111	11-APR-12	E601	2.7	10	<0.5	<0.5	0.86	<1	<0.5	1.1	<0.5	3.9	<0.5
TFG-N													
W-1806	11-APR-12	E601	<0.5	0.72	<0.5	<0.5	<0.5	<1	<0.5	15	<0.5	3.8	<0.5
W-1807	11-APR-12	E601	<0.5	2	<0.5	<0.5	1.4	<1	1.6	18	<0.5	6.1	<0.5
TF406													
W-1309	04-APR-12	E601	0.58	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	3.1	<0.5
W-1310	04-APR-12	E601	<0.5	0.75	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	4.5	<0.5
TF406-NW													
W-1801	04-APR-12	E601	<0.5	1.2	<0.5	<0.5	<0.5	<1	4.3	0.65	<0.5	21	<0.5
TF518-N^a													
W-1410 ^b	16-JUN-11	E601	3.4	3.1	<0.5	0.66	<0.5	<1	<0.5	0.78	<0.5	26	<0.5
TF518-PZ													
W-1615	18-APR-12	E601	0.53	0.56	<0.5	<0.5	5.1	<1	<0.5	53	<0.5	160	<0.5
W-518-1913 ^b	23-MAY-11	E601	<0.5	<0.5	<0.5	<0.5	0.76	<1	<0.5	3.8	<0.5	29	<0.5
W-518-1914	18-APR-12	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	85	<0.5	8.3	<0.5
W-518-1915 ^c	18-APR-12	E601	<2.5	<2.5	<2.5	<2.5	5.7	<5	<2.5	100	<2.5	1200	<2.5
SVB-518-201 ^b	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	35	<0.5	8.5	<0.5
SVB-518-204 ^b	07-FEB-08	E601	<0.5	0.63	<0.5	<0.5	1.4	<1	<0.5	43	<0.5	550	<0.5
TF5475-1^a													
W-1302-2	21-JUN-12	E601	2.4	46	1.7	6.7	23	1.6	7.1	63	<0.5	440	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TF5475-2													
W-1108	01-MAY-12	E601	2.2	21	0.7	2.8	18	<1	7.9	39	<0.5	290	<0.5
W-1415 ^b	27-JUN-11	E601	<0.5	4.2	<0.5	<0.5	1.2	<1	<0.5	2.6	<0.5	20	<0.5
TF5475-3^a													
W-1604	20-JUN-12	E601	4.6	74	2.1	19	32	2.2	9.4	86	<0.5	820	<0.5
W-1605	20-JUN-12	E601	<0.5	22	0.51	2.4	1.4	25	<0.5	6	<0.5	57	<0.5
W-1608	20-JUN-12	E601	<0.5	26	0.61	2	1.8	33	<0.5	6.2	<0.5	64	<0.5
W-1609	20-JUN-12	E601	<0.5	31	0.65	2.7	3.5	<1	<0.5	12	<0.5	100	<0.5

Notes on following page.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

^a Treatment Facility did not operate during reporting period. Please refer to Table A-1 for details.

^b Most recent VOC sample results available.

^c Elevated detection limit due to dilution.

Notes:

CCl₄ = Carbon tetrachloride

CHCl₃ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
VTFD-ETCS													
W-1904	11-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	0.021	<0.005	<0.005	0.36	<0.005	0.1	<0.005
W-ETC-2003	11-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	0.0064	<0.005	<0.005	0.1	<0.005	0.038	<0.005
W-ETC-2004A	11-APR-12	TO15DIT	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005	0.32	<0.005	0.099	<0.005
W-ETC-2004B	11-APR-12	TO15DIT	<0.005	0.012	<0.005	<0.005	0.082	<0.005	<0.005	0.65	<0.005	0.82	<0.005
SIP-ETC-201	11-APR-12	TO15DIT	<0.005	<0.005	0.0093	<0.005	0.036	<0.005	<0.005	0.48	<0.005	0.46	<0.005
VTFD-HS^a													
W-653 ^b	03-NOV-09	TO15DIT	0.026	<0.005	<0.005	<0.005	<0.005	<0.005	0.016	<0.005	<0.005	0.58	<0.005
W-2011 ^b	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.081	<0.005
W-2101 ^b	03-NOV-09	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.052	<0.005
W-2102 ^b	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.11	<0.005
VTFE-ELM													
W-1903	17-APR-12	TO15DIT	<0.005	<0.005	0.0092	<0.005	1	0.0051	0.18	0.98	<0.005	2.3	<0.005
W-1909 ^b	06-OCT-11	TO15DIT	<0.005	0.034	<0.005	<0.005	0.51	<0.005	0.054	0.88	<0.005	1.2	<0.005
W-2305 ^b	06-OCT-11	TO15DIT	<0.005	<0.005	<0.005	<0.005	0.2	<0.005	0.036	0.46	<0.005	0.55	<0.005
W-543-001	17-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	0.75	<0.005	0.16	<0.005
W-543-003	17-APR-12	TO15DIT	<0.005	0.016	<0.005	<0.005	0.14	<0.005	0.03	0.29	<0.005	0.63	<0.005
W-543-1908	17-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	0.01	<0.005	<0.005	0.073	<0.005	0.33	<0.005
VTFE-HS													
W-2105	12-APR-12	TO15DIT	<0.005	0.0094	<0.005	<0.005	0.022	0.0067	0.094	0.29	<0.005	3.2	<0.005
W-ETS-2008A	12-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.026	<0.005	0.045	<0.005
W-ETS-2008B	12-APR-12	TO15DIT	<0.005	0.0063	<0.005	<0.005	0.014	0.0076	0.028	0.68	<0.005	1.5	<0.005
W-ETS-2009	12-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.094	<0.005	0.32	<0.005
W-ETS-2010A	12-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.082	<0.005	0.14	<0.005
W-ETS-2010B	12-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.062	<0.005	0.073	<0.005
VTF406-HS													
W-217	11-APR-12	TO15DIT	0.11	0.026	0.0086	<0.005	0.71	0.01	0.098	0.71	<0.005	1.5	0.011
W-514-2007A	11-APR-12	TO15DIT	0.17	<0.0084	<0.0084	<0.0084	0.09	<0.0084	0.15	0.054	<0.0084	0.39	5.4
W-514-2007B	11-APR-12	TO15DIT	0.067	0.015	0.0056	<0.005	0.44	<0.005	0.058	0.29	<0.005	1	0.1
VTF511													
W-2204	17-APR-12	TO15DIT	0.11	0.03	<0.0062	0.034	0.026	<0.0062	0.0091	0.56	<0.0062	5.1	<0.0062
W-2205	17-APR-12	TO15DIT	0.04	0.0068	<0.005	<0.005	0.014	<0.005	<0.005	0.12	<0.005	1.5	<0.005
W-2206	17-APR-12	TO15DIT	0.0062	0.0092	<0.005	0.039	<0.005	<0.005	<0.005	0.15	<0.005	1.1	<0.005
W-2207A	24-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005	0.82	<0.005
W-2207B	17-APR-12	TO15DIT	<0.005	0.0075	<0.005	<0.005	0.0068	<0.005	<0.005	0.021	<0.005	2.2	<0.005

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
VTF511 (cont.)													
W-2208A	24-APR-12	TO15DIT	0.041	0.025	<0.02	<0.02	0.044	<0.02	<0.02	0.031	<0.02	9.9	0.034
W-2208B	17-APR-12	TO15DIT	0.14	0.093	0.072	<0.025	0.79	0.18	0.084	0.4	<0.025	20	0.089
VTF518-PZ													
W-1615	11-APR-12	TO15DIT	0.0093	<0.0084	<0.0084	<0.0084	0.41	<0.0084	0.062	1.9	<0.0084	5.3	<0.0084
W-518-1913	18-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	0.016	<0.005	<0.005	0.028	<0.005	0.23	<0.005
W-518-1914	18-APR-12	TO15DIT	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	5.2	<0.01	0.4	<0.01
W-518-1915	11-APR-12	TO15DIT	<0.0084	<0.0084	<0.0084	<0.0084	0.091	<0.0084	<0.0084	4.6	<0.0084	5.7	<0.0084
SVB-518-201	18-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0065	<0.005	0.021	<0.005
SVB-518-204	18-APR-12	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.017	<0.005	0.28	<0.005
VTF5475^c													
W-ETS-507	20-JUN-12	TO15DIT	<0.005	1.9	<0.005	0.3	0.043	<0.005	<0.005	0.29	<0.005	1.6	<0.005
W-1605 ^b	06-SEP-07	TO15DI	0.0069	0.17	<0.005	0.15	0.11	<0.005	0.036	0.1	<0.005	0.85	<0.005
W-1608 ^b	06-SEP-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0061	<0.005
W-2211	21-JUN-12	TO15DIT	0.0079	0.38	0.012	0.049	0.22	<0.005	0.057	0.1	<0.005	0.97	<0.005
W-2212	21-JUN-12	TO15DIT	0.031	0.45	0.018	0.072	0.68	<0.005	0.2	0.17	<0.005	1.4	<0.005
W-2302	20-JUN-12	TO15DIT	<0.005	0.022	<0.005	<0.005	0.024	<0.005	0.0055	0.039	<0.005	0.43	<0.005
W-2303	20-JUN-12	TO15DIT	<0.005	0.12	<0.005	0.017	0.024	<0.005	<0.005	0.051	<0.005	0.4	<0.005
SVI-ETS-504	21-JUN-12	TO15DIT	<0.005	0.35	0.0088	<0.005	0.076	<0.005	<0.005	0.13	<0.005	0.73	<0.005

Notes on following page.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

^a VTFD-HS did not operate during reporting period due to dual extraction well ground water pump failure.

^b Most recent VOC vapor sample results available.

^c VTF5475 did not operate during reporting period due to mixed waste disposition issues.

Notes:

CCl_4 = Carbon tetrachloride

CHCl_3 = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-4. Chromium analyses of influent, effluent and receiving water samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Chromium (total)^a mg/L (ppm)	Hexavalent Chromium mg/L (ppm)
TFB	TFB-E002	03-APR-12	0.02	NA
	TFB-E002	01-MAY-12	0.018	NA
	TFB-E002	04-JUN-12	0.019	NA
TFC	TFC-E003	04-APR-12	0.021	NA
	TFC-E003	01-MAY-12	0.02	NA
	TFC-E003	04-JUN-12	0.021	NA
TFC-E	MTU1-I	30-MAY-12	0.045	NA
	MTU1-E	05-APR-12	<0.001	NA
	MTU1-E	01-MAY-12	0.0021	NA
	MTU1-E	04-JUN-12	0.031	NA
TFC-SE	PTU1-E	03-APR-12	0.029	NA
	PTU1-E	01-MAY-12	0.029	NA
	PTU1-E	04-JUN-12	0.031	NA

^aA discharge limit of 0.050 ppm is set for total chromium during the dry season (April 1-November 30), and no limit is set for total chromium for the wet season (December 1-March 31); however, a limit of 0.022 ppm hexavalent chromium applies during the wet season. Discharge limits are defined in the Explanation of Significant Differences for metals discharge limits (April 1997).

Shaded values exceeded the discharge limit. See text for explanation.

Explanation of Abbreviations

TFA-I001 is a sampling port located immediately prior to the TFA Treatment System.

TFA-E001 is a sampling port located immediately after the TFA Treatment System, at the beginning of the discharge pipeline.

TFA receiving water is routinely sampled at the TFG-ASW location.

TFA-W-I is an influent sampling port prior to the sediment bag filter immediately following W-404.

TFA-W-E is an effluent sampling port immediately following the sediment bag filter; the water is then discharged to the Livermore Water Reclamation Plant (LWRP).

TFB-I002 is a sampling port located immediately prior to the TFB Treatment System.

TFB-E002 is a sampling port located immediately after the TFB Treatment System, at the beginning of the discharge pipeline.

TFB-R002 is a sampling station in the drainage ditch north of TFB, located approximately 75 ft downstream from the discharge point.

TFC-I003 is a sampling port located immediately prior to the TFC Treatment System.

TFC-E003 is a sampling port located immediately after the TFC Treatment System, at the beginning of the discharge pipeline.

TFC-R003 is a sampling station in Arroyo Las Positas, located approximately 75 ft downstream from the TFC discharge point.

TFD-I004 is a sampling port located immediately prior to the TFD Treatment System.

TFD-E004 is a sampling port located immediately after the TFD Treatment System, prior to discharge to the Lake Haussmann or to the underground discharge pipeline leading to Arroyo Las Positas.

TFD-R004 is now combined with and collected at the TFC-R003 location. Results are reported under TFC-R003, as approved by the RWQCB.

CRD1-I is a sampling port located immediately prior to the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1).

CRD1-E is the effluent from the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1) and then reinjected at W-1302.

CRD2-I is a sampling port located immediately prior to the catalytic columns in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2).

CRD2-E is the effluent from the last catalytic column in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2) and then reinjected at W-1610.

GTU01-I is a sampling port located immediately prior to GTU01, which is currently operating in the TFG-1 area.

GTU01-E is a sampling port located immediately after GTU01, which is currently operating in the TFG-1 area.

GTU01 receiving water is routinely sampled at the TFG-ASW location.

GTU03-I is a sampling port located immediately prior to GTU03, which is currently operating in the TF406 Northwest area.

GTU03-E is a sampling port located immediately after GTU03, which is currently operating in the TF406 Northwest area.

GTU03 receiving water is routinely sampled at the TFC-R003 location.

GTU07-I is a sampling port located immediately prior to GTU07, which is currently operating in the TFE Hotspot area.

GTU07-E is a sampling port located immediately after GTU07, which is currently operating in the TFE Hotspot area.

GTU07 receiving water is routinely sampled at the TFC-R003 location.

GTU09-I is a sampling port located immediately prior to GTU09, which is currently operating in the TF5475 area.

GTU09-E is a sampling port located immediately after GTU09, which is currently operating in the TF5475 area.

GTU09 receiving water is routinely sampled at the TFC-R003 location.

MTU02-I is a sampling port located immediately prior to MTU02, which is currently operating in the TFG North area.

MTU02-E is a sampling port located immediately after MTU02, which is currently operating in the TFG North area.

MTU02 receiving water is routinely sampled at the TFC-R003 location.

MTU03-I is a sampling port located immediately prior to MTU03, which is currently operating in the TFE Southwest area.

MTU03-E is a sampling port located immediately after MTU03, which is currently operating in the TFE Southwest area.

MTU03 receiving water is routinely sampled at the TFC-R003 location.

MTU04-I is a sampling port located immediately prior to MTU04, which is currently operating in the TFE Southeast area.

MTU04-E is a sampling port located immediately after MTU04, which is currently operating in the TFE Southeast area.

MTU04 receiving water is routinely sampled at the TFC-R003 location.

MTU05-I is a sampling port located immediately prior to MTU05, which is currently operating in the TFE West area.

MTU05-E is a sampling port located immediately after MTU05, which is currently operating in the TFE West area.

Explanation of Abbreviations

MTU05 receiving water is routinely sampled at the TFC-R003 location.

MTU1-I is a sampling port located immediately prior to MTU1, which is currently operating in the TFC East area.

MTU1-E is a sampling port located immediately after MTU1, which is currently operating in the TFC East area.

MTU1 receiving water is routinely sampled at the TFC-R003 location.

PTU1-I is a sampling port located immediately prior to PTU-1, which is currently operating in the TFC Southeast area.

PTU1-E is a sampling port located immediately after PTU-1, which is currently operating in the TFC Southeast area.

PTU1 receiving water is routinely sampled at the TFC-R003 location.

PTU2-I is a sampling port located immediately prior to PTU-2, which is currently operating in the TFD South area.

PTU2-E is a sampling port located immediately after PTU-2, which is currently operating in the TFD South area.

PTU2 receiving water is routinely sampled at TFC-R003 during the wet season.

PTU3-I is a sampling port located immediately prior to PTU-3, which is currently operating in the TFE East area.

PTU3-E is a sampling port located immediately after PTU-3, which is currently operating in the TFE East area.

PTU3 receiving water is routinely sampled at the TFC-R003 location.

PTU5-I is a sampling port located immediately prior to PTU-5, which is currently operating in the TF406 extraction location.

PTU5-E is a sampling port located immediately after PTU-5, which is currently operating in the TF406 extraction location.

PTU5 receiving water is routinely sampled at the TFC-R003 location.

PTU6-I is a sampling port located immediately prior to PTU-6, which is currently operating in the TFD West area.

PTU6-E is a sampling port located immediately after PTU-6, which is currently operating in the TFD West area.

PTU6 receiving water is routinely sampled at the TFC-R003 location.

PTU8-I is a sampling port located immediately prior to PTU-8, which is currently operating in the TFD East area.

PTU8-E is a sampling port located immediately after PTU-8, which is currently operating in the TFD East area.

PTU8 receiving water is routinely sampled at the TFC-R003 location.

PTU9-I is a sampling port located immediately prior to PTU-9, which is currently operating in the TFE Northwest area.

PTU9-E is a sampling port located immediately after PTU-9, which is currently operating in the TFE Northwest area.

PTU9 receiving water is routinely sampled at the TFC-R003 location.

PTU10-I is a sampling port located immediately prior to PTU-10, which is currently operating in the TFD Helipad area.

PTU10-E is a sampling port located immediately after PTU-10, which is currently operating in the TFD Helipad area.

PTU10 receiving water is routinely sampled at the TFC-R003 location.

PTU11-I is a sampling port located immediately prior to PTU-11, which is currently operating in the TFD Southeast area.

PTU11-E is a sampling port located immediately after PTU-11, which is currently operating in the TFD Southeast area.

PTU11 receiving water is routinely sampled at the TFC-R003 location.

PTU12-I is a sampling port located immediately prior to PTU-12, which is currently operating in the TFD Southshore area.

PTU12-E is a sampling port located immediately after PTU-12, which is currently operating in the TFD Southshore area.

PTU12 receiving water is routinely sampled at the TFC-R003 location.

STU06-I is a sampling port located immediately prior to STU06, which is operating in the TFA East area.

STU06-E is a sampling port located immediately after STU06, which is operating in the TFA East area.

STU06 receiving water is routinely sampled at the TFG-ASW location.

STU09-I is a sampling port located immediately prior to STU09, which is currently operating in the TF518-North area.

STU09-E is a sampling port located immediately after STU09, which is currently operating in the TF518-North area.

STU09 receiving water is routinely sampled at the TFC-R003 location.

Attachment B

Self-Monitoring Reports

Self-Monitoring Report LLNL Treatment Facility A (TFA) AREA TFA

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>														
April	<u>01</u>	<u>02</u>	<u>03</u>	04	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 718

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-02-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>17.8</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-109	1,060,900	25.0
W-262	200	0.0
W-408	438,300	10.3
W-415	1,025,700	24.1
W-457	1,013,200	24.0
W-518	187,700	4.4
W-522	659,800	15.1
W-605	371,200	8.6
W-614	463,800	10.7
W-712	271,200	6.4
W-714	345,800	7.9
W-903	666,900	14.6
W-904	1,566,000	36.0
W-1001	163,300	3.6
W-1004	484,900	11.4
W-1009	1,022,800	24.2
Total:	<u>9,741,700</u>	<u>226.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>5,206,800</u>

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco

TFG-ASW

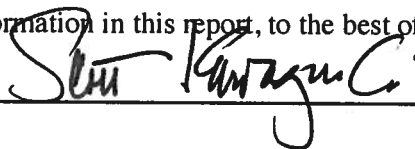
4,534,900

6. Comments:

Facility down on 4-3-12 due to west pipeline leak fault. Restarted on 4-5-12.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____



Date: 04-30-2012

Self-Monitoring Report

LLNL Treatment Facility A (TFA)

AREA TFA

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>

Total monthly time facility operated (hours): **669**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **05-01-2012**

Influent pH: **7.0**

Effluent pH: **7.5**

Effluent Temperature (°C): **18.5**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-109	985,200	24.8
W-262	0	0.0
W-408	407,200	10.3
W-415	929,200	24.4
W-457	936,400	23.8
W-518	174,700	4.4
W-522	617,400	15.6
W-605	345,400	8.8
W-614	432,300	11.1
W-712	247,600	6.4
W-714	321,200	8.2
W-903	608,900	15.0
W-904	1,437,800	36.8
W-1001	154,600	3.8
W-1004	451,600	11.6
W-1009	951,100	24.0
Total:	<u>9,000,600</u>	<u>229.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>4,799,500</u>

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco

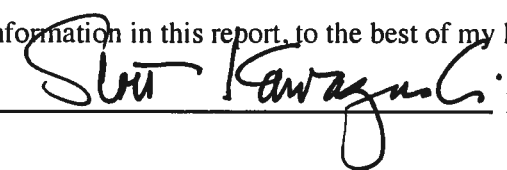
TFG-ASW

4,201,100

6. Comments:

System down on 5-26-12 due to low air flow. Restarted on 5-29-12. System down on 5-30-12 due to low air flow. Restarted on 5-31-12.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-01-2012

Self-Monitoring Report

LLNL Treatment Facility A (TFA)

AREA TFA

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **688**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **06-01-2012**
Influent pH: **7.0**
Effluent pH: **7.5**
Effluent Temperature (°C): **19.5**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-109	1,011,000	24.8
W-262	0	0.0
W-408	421,300	10.4
W-415	948,300	23.2
W-457	955,000	23.5
W-518	181,800	4.5
W-522	675,600	16.4
W-605	354,300	8.8
W-614	438,700	10.8
W-712	262,600	6.8
W-714	336,600	8.4
W-903	650,500	15.8
W-904	1,483,400	36.6
W-1001	158,300	3.8
W-1004	464,100	11.5
W-1009	981,600	24.0
Total:	<u>9,323,100</u>	<u>229.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>4,992,900</u>

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco

TFG-ASW

4,330,200

6. Comments:

Facility down on 6-6-12 due to low air stripper flow fault. Restarted on 6-7-12.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____

Scott Kawaguchi

Date: 06-29-2012

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>																
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>		
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>		

Total monthly time facility operated (hours): 745

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-02-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>12.8</u>

4. Wellfield Data:

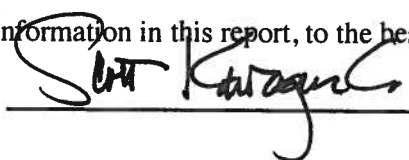
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	19,746	0.4
Total:	<u>19,746</u>	<u>0.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>19,746</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2012

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 630

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-01-2012
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 18.5

4. Wellfield Data:

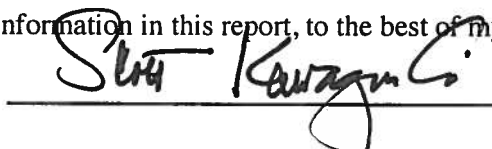
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	16,980	0.4
Total:	<u>16,980</u>	<u>0.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>16,980</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-31-2012

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 430

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-01-2012

Influent pH: 7.0

Effluent pH: 7.0

Effluent Temperature (°C): 20.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	11,408	0.4
Total:	<u>11,408</u>	<u>0.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>11,408</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kuznetsov Date: 06-29-2012

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility B (TFB)
AREA TFB

Operator Signature: Scott Kawaguchi Date: 04-30-2012

**Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel**

1. Reporting Period: Business Month April Year 2012

2. Date compliance sampling performed 04-03-2012

3. Weather Conditions:

Average air tempertaure (°C):	<u>12.04</u>
6-day total precipitation (in):	<u>0.41</u>
Average wind speed/direction (mph):	<u>6/SSW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 05-09-2012

**Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB**

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): **665**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **05-01-2012**

Influent pH: **7.0**

Effluent pH: **7.5**

Effluent Temperature (°C): **18**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-357	337,500	8.2
W-610	264,900	6.5
W-620	233,100	5.2
W-621	0	0.0
W-655	0	0.0
W-704	672,300	16.9
W-1423	194,500	5.0
W-2501	272,300	16.6
W-2502	175,800	4.8
Total:	<u>2,150,400</u>	<u>63.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>2,150,400</u>

6. Comments:

Secured W-2501, W-2502 for well field step flow test. System down on 5-13-12 due to low air flow. Restarted on 5-14-12. Started well field step flow test on 5-16-12. System down on 5-27-12 due to low air flow. Restarted on 5-29-12.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility B (TFB)
AREA TFB

Operator Signature:  Date: 06-01-2012

**Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel**

1. Reporting Period: Business Month May Year 2012

2. Date compliance sampling performed 05-01-2012

3. Weather Conditions:

Average air tempertaure (°C):	<u>14.71</u>
6-day total precipitation (in):	<u>0.44</u>
Average wind speed/direction (mph):	<u>5/ SSW</u>

4. Receiving Data:

Sample Location	pH	Temperature (C)
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 06-08-2012

**Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB**

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 678

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-04-2012

Influent pH: 7.0

Effluent pH: 7.5

Effluent Temperature (°C): 19.3

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-357	342,600	8.4
W-610	251,100	6.5
W-620	223,200	5.7
W-621	0	0.0
W-655	0	0.0
W-704	694,300	17.2
W-1423	196,200	4.7
W-2501	649,900	19.0
W-2502	204,300	5.1
Total:	<u>2,561,600</u>	<u>66.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>2,561,600</u>

6. Comments:

Facility down on 6-24-12 due to low air stripper flow fault. Restarted on 6-25-12.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kaurzynski Date: 06-29-2012

**Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel**

1. Reporting Period: Business Month June Year 2012

2. Date compliance sampling performed 06-04-2012

3. Weather Conditions:

Average air tempertaure (°C):	<u>17.8</u>
6-day total precipitation (in):	<u>0.13</u>
Average wind speed/direction (mph):	<u>6/ SW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Stan Kragun Date: 07-06-2012

**Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC**

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>																		
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 755

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-04-2012

Influent pH: 7.5

Effluent pH: 7.5

Effluent Temperature (°C): 18.7

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-701	616,648	13.8
W-1015	201,772	4.6
W-1102	178,522	4.0
W-1103	117,386	2.6
W-1104	1,218,320	27.3
W-1116	74,577	1.8
Total:	<u>2,407,225</u>	<u>54.1</u>

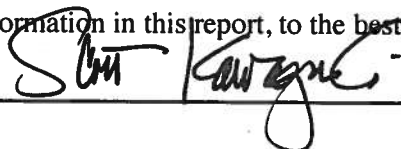
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,407,225</u>

6. Comments:

Secured hexavalent chromium treatment on 4-2-12. End of wet season.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2012

**Land Observation Report date:
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month April Year 2012

2. Date compliance sampling performed 04-04-2012

3. Weather Conditions:

Average air tempertaure (°C):	<u>11.46</u>
6-day total precipitation (in):	<u>0.41</u>
Average wind speed/direction (mph):	<u>6/ SW</u>

4. Receiving Data:

Sample Location	pH	Temperature (C)
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 05-09-2012

**Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC**

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): 755

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-01-2012

Influent pH: 7.0

Effluent pH: 7.5

Effluent Temperature (°C): 18.8

4. Wellfield Data:

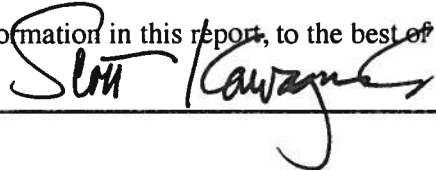
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-701	616,552	13.8
W-1015	203,392	4.8
W-1102	173,684	3.9
W-1103	121,077	2.7
W-1104	1,220,136	27.4
W-1116	82,688	1.8
Total:	<u>2,417,529</u>	<u>54.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,417,529</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-01-2012

**Land Observation Report date:
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month May Year 2012

2. Date compliance sampling performed 05-01-2012

3. Weather Conditions:

Average air tempertaure (°C):	<u>14.71</u>
6-day total precipitation (in):	<u>0.44</u>
Average wind speed/direction (mph):	<u>5/ SSW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kawaguchi Date: 06-08-2012

**Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC**

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **706**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **06-04-2012**

Influent pH: **7.0**

Effluent pH: **7.5**

Effluent Temperature (°C): **20.4**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-701	574,552	13.8
W-1015	186,360	4.3
W-1102	161,000	3.9
W-1103	115,908	2.7
W-1104	1,144,472	27.3
W-1116	78,670	1.9
Total:	<u>2,260,962</u>	<u>53.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,260,962</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-29-2012**

**Land Observation Report date:
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month June Year 2012

2. Date compliance sampling performed 06-04-2012

3. Weather Conditions:

Average air tempertaure (°C):	<u>17.8</u>
6-day total precipitation (in):	<u>0.13</u>
Average wind speed/direction (mph):	<u>6/ SW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 07-06-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>30</u>	31																	
April	01	02	03	04	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 595

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-05-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.5</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-368	120,617	3.5
W-413	592,757	16.4
Total:	<u>713,374</u>	<u>19.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>713,374</u>

6. Comments:

Facility was down waiting for resin order.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 742

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-01-2012
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 19.7

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-368	138,714	3.1
W-413	732,403	16.4
Total:	<u>871,117</u>	<u>19.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>871,117</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-01-2012

**Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E**

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28

Total monthly time facility operated (hours): 667

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-04-2012
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 19.5

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-368	125,211	3.5
W-413	659,958	16.4
Total:	<u>785,169</u>	<u>19.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>785,169</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-12-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>																		
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 755

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-03-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.9</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1213	224,066	5.1
W-2201	547,083	12.2
Total:	<u>771,149</u>	<u>17.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>771,149</u>

6. Comments:

Hexavalent chromium treatment secured on 4-2-12. End of wet season.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Karaguz Date: 04-30-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 754

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-01-2012
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 21.4

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1213	223,205	5.0
W-2201	546,859	12.5
Total:	<u>770,064</u>	<u>17.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>770,064</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Lawrence Date: 06-01-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	

Total monthly time facility operated (hours): 706

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-04-2012

Influent pH: 7.0

Effluent pH: 7.5

Effluent Temperature (°C): 20.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1213	188,147	4.6
W-2201	511,682	12.4
Total:	<u>699,829</u>	<u>17.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>699,829</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____

Scott Kawaguchi

Date: 06-29-2012

Self-Monitoring Report

LLNL Treatment Facility D (TFD)

AREA TFD

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	31																
April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		
	16	17	18	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>		

Total monthly time facility operated (hours): 251

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-19-2012</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.3</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-351	18,600	1.2
W-653	2,200	2.0
W-906	64,900	4.5
W-907-2	156,300	10.6
W-2011	5,400	2.5
W-2101	3,800	2.5
W-2102	6,500	2.6
W-1206	58,400	4.2
W-1208	362,300	24.2
Total:	<u>678,400</u>	<u>54.3</u>

5. Discharge Information:

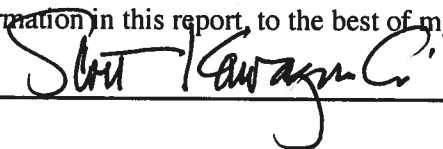
<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>678,400</u>
<u>TFD irrigation supply</u>	<u>TFD-IRR</u>	<u>0</u>

6. Comments:

Completed air stripper descaling. Restarted facility on 4-19-11. Secured W-2011 on 4-28-12 due to flow problems. System went down on 4-29-12 due to high stripper level. Restarted on 4-30-12.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2012

Self-Monitoring Report LLNL Treatment Facility D (TFD) AREA TFD

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>

Total monthly time facility operated (hours): 752

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-01-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.3</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-351	47,800	1.2
W-653	5,700	3.0
W-906	199,100	4.4
W-907-2	410,500	9.7
W-2011	8,300	3.0
W-2101	10,800	3.0
W-2102	17,700	3.0
W-1206	166,800	4.0
W-1208	1,091,600	24.4
<hr/>		
Total:	<u>1,958,300</u>	<u>55.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,958,300</u>
<u>TFD irrigation supply</u>	<u>TFD-IRR</u>	<u>0</u>

6. Comments:

W-351 secured on 5-11-12. W-2011 and W-351 started on 5-15-12.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature: Steve Kaurzynski Date: 06-01-2012

Self-Monitoring Report

LLNL Treatment Facility D (TFD)

AREA TFD

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **702**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **06-01-2012**
Influent pH: **7.0**
Effluent pH: **7.5**
Effluent Temperature (°C): **22.3**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-351	52,900	1.2
W-653	4,900	3.0
W-906	185,200	4.5
W-907-2	411,800	8.9
W-2011	13,900	3.0
W-2101	9,400	3.0
W-2102	14,400	3.0
W-1206	239,200	3.6
W-1208	1,003,000	24.3
Total:	<u>1,934,700</u>	<u>54.5</u>

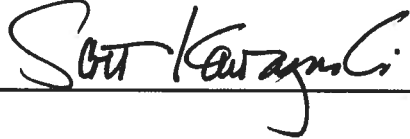
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,934,700</u>
<u>TFD irrigation supply</u>	<u>TFD-IRR</u>	<u>0</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature:  Date: 06-29-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
	22	23	24	25	26	27	28	29	30	31					
April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2006	0	0.0
W-1301	0	0.0
W-1303	0	0.0
W-1306	0	0.0
W-1307	0	0.0
W-2203	0	0.0
W-1550	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

Facility down for facility and well head upgrades. Facility did not run in the month of April.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-08-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
															<u>31</u>

Total monthly time facility operated (hours): 2

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-31-2012</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>26.8</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2006	25	0.5
W-1301	175	4.6
W-1303	317	5.9
W-1306	63	0.7
W-1307	827	9.8
W-1550	129	1.1
W-2203	46	0.3
Total:	<u>1,582</u>	<u>22.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,582</u>

6. Comments:

Start up testing and operations of upgraded system.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-13-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 **05** 06 07 08 09 10 **11** **12** **13** **14** **15**
 16 17 **18** 19 20 21 22 23 24 **25** **26** **27** **28**

Total monthly time facility operated (hours): 113

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **06-01-2012**
Influent pH: **7.0**
Effluent pH: **7.5**
Effluent Temperature (°C): **22.1**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2006	742	0.0
W-1301	17,855	4.6
W-1303	30,542	5.9
W-1306	4,598	0.7
W-1307	69,267	9.8
W-1550	7,976	1.1
W-2203	3,007	0.3
Total:	<u>133,987</u>	<u>22.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>133,987</u>

6. Comments:

System was down for testing and verification.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-12-2012**

Operator Signature: Sally O. Kuhl Date: **06-22-2012**

Self-Monitoring Report
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 609

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-02-2012

Influent pH: 7.0

Effluent pH: 7.5

Effluent Temperature (°C): 20.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1254	218,256	5.0
Total:	<u>218,256</u>	<u>5.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>218,256</u>

6. Comments:

The facility was shut down at 14:13 on 5/25/12 for a planned power outage in the area. The facility was restarted on 5-29-12.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kilduff Date: 06-27-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): 703

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-04-2012
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 20.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1254	220,705	5.3
Total:	<u>220,705</u>	<u>5.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>220,705</u>

6. Comments:

NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Betty O. Kilduff Date: 07-17-2012

**Self-Monitoring Report
LLNL ISB01 (ISB01)
AREA TFD-HPD**

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	31																		
April	01	<u>02</u>	<u>03</u>	04	<u>05</u>	06	07	08	09	10	11	12	13	14	15				
	16	17	18	19	20	21	22	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	28	29	<u>30</u>				

Total monthly time facility operated (hours): 35

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1650	403	2.6
W-1653	363	1.3
W-1655	348	1.4
W-1657	375	1.5
Total:	<u>1,489</u>	<u>6.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>ISB01 injection well</u>	<u>W-1552</u>	<u>1,489</u>

6. Comments:

Compliance sampling is not required at this facility due to the fact that ISB01 is a closed loop system, and water is not discharged to the environment. Water was circulated through the system, but it was not treated. The recorded flowrate readings were taken when the facility was running in the lactate injection mode. The facility has been running in a cyclic mode since 02-3-12. The facility shut down several times and was down for several days due to system high pressure alarm activations. The facility was also down for setup for redevelopment of extraction wells. Approximately 200 gallons of water were recirculated in each of the extraction wells on April 23 for well redevelopment but the water was not injected into W-1552.

Self-Monitoring Report (cont'd)
LLNL ISB01 (ISB01)
AREA TFD-HPD

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy O. Kuhl Date: 06-26-2012

Self-Monitoring Report LLNL ISB01 (ISB01) AREA TFD-HPD

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	05	06	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	12	13	<u>14</u>	<u>15</u>	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 45

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1650	242	2.2
W-1653	196	1.6
W-1655	196	1.6
W-1657	215	2.1
Total:	<u>849</u>	<u>7.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>ISB01 injection well</u>	<u>W-1552</u>	<u>849</u>

6. Comments:

Compliance sampling is not required at this facility due to the fact that ISB01 is a closed loop system, and water is not discharged to the environment. Water was circulated through the system, but it was not treated. The recorded flowrate readings were taken when the facility was running in the lactate injection mode. The facility has been running in a cyclic mode since 02-3-12. The facility shut down several times and was down for several days due to system high pressure alarm activations. The facility did not operate from 5/16/12 thru 5/31/12 due to a system high pressure alarm, removal of W-1552 hardware to install a new check valve at a new depth, completion of SOP 3.2, and a planned power outage in the area.

Self-Monitoring Report (cont'd)
LLNL ISB01 (ISB01)
AREA TFD-HPD

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kidd Date: 06-26-2012

**Self-Monitoring Report
LLNL ISB01 (ISB01)
AREA TFD-HPD**

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June	01	02	03	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	

Total monthly time facility operated (hours): 589

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1650	690	2.5
W-1653	320	0.6
W-1655	703	2.6
W-1657	866	3.3
Total:	<u>2,579</u>	<u>9.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>ISB01 injection well</u>	<u>W-1552</u>	<u>2,579</u>

6. Comments:

The facility was restarted at 1317 on 6-4-12, after the Memorial Day holiday/weekend. The facility was shut down at 1142 on 6-27-12 and restarted at 0942 on 6-28-12. Compliance sampling is not required at this facility due to the fact that ISB01 is a closed loop system, and water is not discharged to the environment. Water was circulated through the system, but it was not treated. The recorded flowrate readings were taken when the facility was running in the lactate injection mode. Injection of sodium lactate began on 6-21-12 and continued for the rest of the month.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL ISB01 (ISB01)
AREA TFD-HPD

Operator Signature: Billy D. Kistner Date: 07-19-2012

Operator Signature: *[Signature]* Date: **05-01-2012**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): **656**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **05-07-2012**
Influent pH: **7.0**
Effluent pH: **7.0**
Effluent Temperature (°C): **21.5**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1503	448,704	11.4
W-1504	305,664	7.8
W-1510	200,736	5.0
Total:	<u>955,104</u>	<u>24.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>955,104</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-06-2012**

**Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S**

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 701

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-07-2012

Influent pH: 7.0

Effluent pH: 7.0

Effluent Temperature (°C): 21.7

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1503	475,278	11.3
W-1504	320,772	7.6
W-1510	209,879	4.9
Total:	<u>1,005,929</u>	<u>23.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,005,929</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-02-2012

Self-Monitoring Report

LLNL Portable Treatment Unit 11 (PTU11)

AREA TFD-SE

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>30</u>	<u>31</u>																	
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 777

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-04-2012

Influent pH: 7.0

Effluent pH: 7.5

Effluent Temperature (°C): 16.8

4. Wellfield Data:

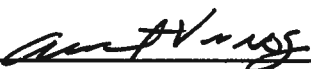
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-314	464,848	10.1
W-2005	0	0.0
W-1308	161,407	3.5
W-1403	67,745	1.4
W-1904	0	0.0
SIP-ETC-201	0	0.0
Total:	<u>694,000</u>	<u>15.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>694,000</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 742

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-01-2012
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 17.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-314	445,200	10.1
W-2005	0	0.0
W-1308	155,820	3.5
W-1403	64,554	1.4
W-1904	0	0.0
SIP-ETC-201	0	0.0
Total:	<u>665,574</u>	<u>15.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>665,574</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-01-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 704

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-04-2012
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 16.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-314	401,515	9.6
W-2005	0	0.0
W-1308	118,094	3.0
W-1403	63,897	1.4
W-1904	0	0.0
SIP-ETC-201	0	0.0
Total:	<u>583,506</u>	<u>14.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>583,506</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Am Vung Date: 07-12-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>																		
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 757

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-12-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>19.5</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	302,281	6.7
W-1601	44,825	1.0
W-1602	182,507	4.1
W-1603	626,367	14.1
Total:	<u>1,155,980</u>	<u>25.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,155,980</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): **749**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **05-07-2012**

Influent pH: **7.0**

Effluent pH: **7.0**

Effluent Temperature (°C): **19.8**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	295,802	6.5
W-1601	43,088	0.9
W-1602	179,170	3.9
W-1603	587,839	13.2
Total:	<u>1,105,899</u>	<u>24.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,105,899</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-06-2012**

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **701**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **06-08-2012**

Influent pH: **7.0**

Effluent pH: **7.0**

Effluent Temperature (°C): **20**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	271,851	6.6
W-1601	39,876	0.9
W-1602	166,069	4.0
W-1603	540,328	13.0
Total:	<u>1,018,124</u>	<u>24.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,018,124</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-02-2012**

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>														
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 751

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-04-2012

Influent pH: 7.5

Effluent pH: 7.5

Effluent Temperature (°C): 23.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1215	428,535	9.7
W-1216	458,920	10.2
W-1902	807,438	18.2
Total:	<u>1,694,893</u>	<u>38.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,694,893</u>

6. Comments:

NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kidd Date: 05-09-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): **753**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **05-02-2012**

Influent pH: **7.3**

Effluent pH: **7.5**

Effluent Temperature (°C): **22.7**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1215	426,707	9.8
W-1216	462,067	10.2
W-1902	809,384	18.3
Total:	<u>1,698,158</u>	<u>38.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,698,158</u>

6. Comments:

NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-13-2012**

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): 699

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-14-2012

Influent pH: 7.0

Effluent pH: 7.5

Effluent Temperature (°C): 22.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1215	401,186	9.7
W-1216	428,972	10.3
W-1902	751,587	18.1
Total:	<u>1,581,745</u>	<u>38.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,581,745</u>

6. Comments:

NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kuhn Date: 07-17-2012

Self-Monitoring Report

LLNL Vapor Extraction System 11 (VES11)

AREA VTFD-ETCS

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treatment facility operated

March	<u>31</u>																								
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>										
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>										

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1904	633	0.0	0	0	1
W-ETC-2003	607,327	13.9	-1.04	68	733
W-ETC-2004A	194,347	4.2	-5.82	68	733
W-ETC-2004B	679,102	17.4	-4.89	68	733
SIP-ETC-201	433	0.0	0	0	1
Total:	<u>1,481,842</u>	<u>35.5</u>			

4. Comments:

Facility operations secured 4/24 at 06:30 hrs to perform modifications to facility inlet piping. Facility was restarted 4/25 at 07:10 hrs.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-21-2012

Self-Monitoring Report

LLNL Vapor Extraction System 11 (VES11)

AREA VTFD-ETCS

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-1904	0	0.0	0	0	0
W-ETC-2003	563,160	12.9	-.95	68	751
W-ETC-2004A	270,188	5.2	-5.11	68	751
W-ETC-2004B	737,386	16.9	-4.27	68	751
SIP-ETC-201	0	0.0	0	0	0
Total:	<u>1,570,734</u>	<u>35.0</u>			

4. Comments:

Facility secured 5/15/12 at 10:05 hrs. to install BCS system. Facility was restarted 5/15 at 10:35 HRS.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2012

Self-Monitoring Report

LLNL Vapor Extraction System 11 (VES11)

AREA VTFD-ETCS

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treatment facility operated

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1904	0	0.0	0	0	0
W-ETC-2003	480,081	11.3	-.88	82	665
W-ETC-2004A	177,602	3.5	-3.96	82	665
W-ETC-2004B	641,673	15.3	-3.48	82	665
SIP-ETC-201	0	0.0	0	0	0
Total:	<u>1,299,356</u>	<u>30.0</u>			

4. Comments:

Facility shutdown 6/17/12 at 19:25, cause shutdown unknown. Facility was restarted 6/18/12 @ 08:15 hrs.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-05-2012

Operator Signature: *[Signature]* Date: **04-30-2012**

Self-Monitoring Report

LLNL Vapor Extraction System 13 (VES13)

AREA VTFD-HS

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treatment facility operated

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-653	0	0.0	0	0	0
W-2011	0	0.0	0	0	0
W-2101	0	0.0	0	0	0
W-2102	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

System did not operate during this period.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kawaguchi Date: 05-31-2012

Self-Monitoring Report

LLNL Vapor Extraction System 13 (VES13)

AREA VTFD-HS

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treatment facility operated

June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-653	0	0.0	0	0	0
W-2011	0	0.0	0	0	0
W-2101	0	0.0	0	0	0
W-2102	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

System did not operate during this period.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-29-2012**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>														
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 750

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-03-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>19.5</u>

4. Wellfield Data:

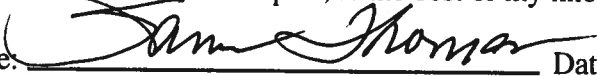
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-566	381,177	8.6
W-1109	60,201	1.5
W-1903	38,819	1.0
W-1909	0	0.0
W-2305	0	0.0
Total:	<u>480,197</u>	<u>11.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>480,197</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 758

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-01-2012
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 20.1

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-566	382,447	8.5
W-1109	56,350	1.2
W-1903	33,312	0.7
W-1909	0	0.0
W-2305	0	0.0
Total:	<u>472,109</u>	<u>10.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>472,109</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28

Total monthly time facility operated (hours): 680

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-04-2012
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 20.9

4. Wellfield Data:


<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-566	341,736	8.5
W-1109	50,015	1.2
W-1903	26,074	0.6
W-1909	0	0.0
W-2305	109	0.0
Total:	<u>417,934</u>	<u>10.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>417,934</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-05-2012

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>														
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 700

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-05-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>14.3</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2105	351	2.7
Total:	<u>351</u>	<u>2.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>351</u>

6. Comments:

W-2105 secured 4/3/12 to allow well levels to recover in preparation for monthly/quarterly sample collection. W-2105 utilizes vacuum-enhanced groundwater extraction combined with cyclic pump operation. Therefore constant flow rate and hours of operation may not correspond.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-03-2012

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 738

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-02-2012
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 24.1

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2105	179	0.5
Total:	<u>179</u>	<u>0.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>179</u>

6. Comments:

W-2105 utilizes vacuum-enhanced groundwater extraction combined with cyclic pump operation. Therefore constant flow rate and hours of operation may not correspond. The decline in monthly volume for the reporting month can be partially attributed to the shutdown of VES 12.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: 06-15-2012

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28

Total monthly time facility operated (hours): 648

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-06-2012
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 20

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2105	106	1.5
Total:	<u>106</u>	<u>1.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>106</u>

6. Comments:

W-2105 utilizes vacuum-enhanced groundwater extraction combined with cyclic pump operation. Therefore constant flow rate and hours of operation may not correspond. The decline in monthly volume for the reporting month can be partially attributed to the shutdown of VES 12.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-05-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>														
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 759

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-12-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>22.2</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1211	285,910	6.3
W-1409	104,249	2.3
Total:	<u>390,159</u>	<u>8.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>390,159</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): **753**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **05-07-2012**

Influent pH: **7.0**

Effluent pH: **7.0**

Effluent Temperature (°C): **22.2**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1211	277,354	6.2
W-1409	101,788	2.2
Total:	<u>379,142</u>	<u>8.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>379,142</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-06-2012**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): 704

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-08-2012

Influent pH: 7.0

Effluent pH: 7.0

Effluent Temperature (°C): 22.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1211	256,722	6.1
W-1409	93,528	2.2
Total:	<u>350,250</u>	<u>8.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>350,250</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-02-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>														
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 740

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-03-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>20.9</u>

4. Wellfield Data:

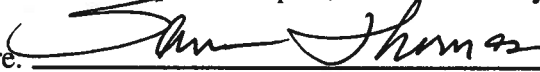
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-359	375,101	8.4
Total:	<u>375,101</u>	<u>8.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>375,101</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 740

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-01-2012
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 21.7

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-359	373,044	8.4
Total:	<u>373,044</u>	<u>8.4</u>

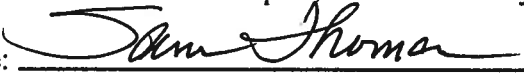
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>373,044</u>

6. Comments:

Facility secured 5/7/12 at 14:15 hrs to perform system interlock checks. Facility was restarted 5/7 at 14:45 hrs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28

Total monthly time facility operated (hours): 651

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-04-2012
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 20.5

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-359	337,065	8.3
Total:	<u>337,065</u>	<u>8.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>337,065</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: 07-05-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>																		
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 741

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-04-2012</u>
Influent pH:	<u>7.3</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>13.2</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1518	41,403	0.9
W-1520	26	1.2
W-1522	40	1.7
Total:	<u>41,469</u>	<u>3.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>41,469</u>

6. Comments:
NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Hild Date: 05-09-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>

Total monthly time facility operated (hours): 694

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-02-2012

Influent pH: 7.3

Effluent pH: 7.5

Effluent Temperature (°C): 15.5

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1518	38,833	0.7
W-1520	0	0.0
W-1522	0	0.0
Total:	<u>38,833</u>	<u>0.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>38,833</u>

6. Comments:

The facility was down for approximately 36 hrs. for annual interlock check and equipment repair.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy O. Kuhl Date: 06-13-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	

Total monthly time facility operated (hours): **628**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **06-14-2012**

Influent pH: **7.0**

Effluent pH: **7.5**

Effluent Temperature (°C): **16.1**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1518	28,894	0.7
W-1520	0	0.0
W-1522	0	0.0
Total:	<u>28,894</u>	<u>0.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>28,894</u>

6. Comments:

The facility was shutdown at 1102 on 6-1-12 to perform SOP3.2 and download software. The facility was restarted at 1416. The facility shut down at 1951 on 6-1-12(Friday) and was restarted at 707 on 6-4-12(Monday).

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-17-2012**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>																		
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 740

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-04-2012</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.8</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-292	267,635	6.0
W-305	576,096	12.0
Total:	<u>843,731</u>	<u>18.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>843,731</u>

6. Comments:
NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Betty D. Field Date: 05-09-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): **741**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **05-02-2012**

Influent pH: **7.4**

Effluent pH: **7.5**

Effluent Temperature (°C): **20.7**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-292	267,300	6.0
W-305	623,062	14.0
Total:	<u>890,362</u>	<u>20.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>890,362</u>

6. Comments:

NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

Billy J. Kistler Date: **06-13-2012**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 690

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-14-2012

Influent pH: 7.0

Effluent pH: 7.5

Effluent Temperature (°C): 20.5

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-292	245,822	6.0
W-305	580,193	13.9
Total:	<u>826,015</u>	<u>19.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>826,015</u>

6. Comments:

NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy J. Smith Date: 07-17-2012

Self-Monitoring Report

LLNL Vapor Extraction System 16 (VES16)

AREA VTFE-ELM

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treatment facility operated

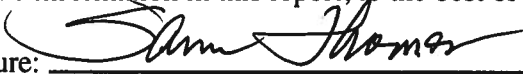
March	<u>31</u>																												
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>														
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>														

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1903	75,199	1.8	-18.77	69	743
W-1909	0	0.0	0	0	0
W-2305	0	0.0	0	0	0
W-543-001	225	0.0	0	0	0
W-543-003	980,876	21.0	-1	69	743
W-543-1908	348	0.0	0	0	0
Total:					
	<u>1,056,648</u>	<u>22.8</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2012

Self-Monitoring Report

LLNL Vapor Extraction System 16 (VES16)

AREA VTFE-ELM

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1903	63,739	1.5	-18.3	54	740
W-1909	0	0.0	0	0	0
W-2305	0	0.0	0	0	0
W-543-001	0	0.0	0	0	0
W-543-003	1,025,548	22.9	-1.2	54	740
W-543-1908	0	0.0	0	0	0
Total:	<u>1,089,287</u>	<u>24.4</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2012

Self-Monitoring Report

LLNL Vapor Extraction System 16 (VES16)

AREA VTFE-ELM

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treatment facility operated

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28


3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1903	52,450	1.4	-1	82	622
W-1909	0	0.0	0	0	0
W-2305	0	0.0	0	0	0
W-543-001	0	0.0	0	0	0
W-543-1908	0	0.0	0	0	0
W-543-003	820,725	20.4	-17	82	622
Total:	<u>873,175</u>	<u>21.8</u>			

4. Comments:

Facility was discovered shutdown 6/5/12 due to W-1903 air coil temperature alarm. Interlock was disabled and facility was restarted 6/6/12 at 08:40 hrs. Facility was secured 6/21/12 at 07:30 to repair water leak on blower. Facility was restarted at 13:55. Facility was discovered shutdown 6/26/12, caused by High separator level interlock. Excess operating liquid was drained from blower reservoir and mechanical outlet regulator removed from unit and replaced. Facility was restarted 6/27/12 at 08:38 hrs.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-10-2012

Self-Monitoring Report

LLNL Vapor Extraction System 12 (VES12)

AREA VTFE-HS

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treatment facility operated

March	<u>31</u>																								
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>										
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>										

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-2105	54,529	1.3	-8.31	68	739
W-ETS-2008A	86	0.0	0	0	0
W-ETS-2008B	649,152	13.7	-7.92	68	739
W-ETS-2009	104	0.0	0	0	0
W-ETS-2010A	146	0.0	0	0	0
W-ETS-2010B	140	0.0	0	0	0
Total:	<u>704,157</u>	<u>15.0</u>			

4. Comments:

Quarterly vapor samples collected 4/12/12. Found facility shutdown 4/16 @ 14:00 hrs. due to low discharge separator level. Added 10 gallons of operating liquid to separator, and facility was restarted 4/16 @ 14:35 hrs.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2012

Self-Monitoring Report

LLNL Vapor Extraction System 12 (VES12)

AREA VTFF-HS

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31


3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-2105	27,283	1.3	-8.16	70	360
W-ETS-2008A	0	0.0	0	0	0
W-ETS-2008B	312,278	14.6	-7.94	70	360
W-ETS-2009	0	0.0	0	0	0
W-ETS-2010A	0	0.0	0	0	0
W-ETS-2010B	0	0.0	0	0	0
Total:	<u>339,561</u>	<u>15.9</u>			

4. Comments:

Facility shutdown 5/9/12 and was offline several days during reporting month to evaluate system electronics. Month end volumes for W-ETS-2008B were calculated from the individual flow measurements, and not derived from the totalizer values.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-05-2012

Self-Monitoring Report

LLNL Vapor Extraction System 12 (VES12)

AREA VTFE-HS

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treatment facility operated

June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28		

3. Wellfield Data:

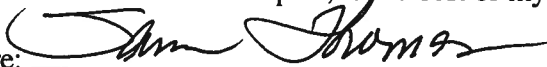
<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-2105	21,552	0.0	0	0	270
W-ETS-2008A	0	0.0	0	0	0
W-ETS-2008B	235,329	0.0	0	0	270
W-ETS-2009	0	0.0	0	0	0
W-ETS-2010A	0	0.0	0	0	0
W-ETS-2010B	0	0.0	0	0	0
Total:	<u>256,881</u>	<u>0.0</u>			

4. Comments:

Facility was discovered shutdown 6/11/12 due to catastrophic failure of vacuum unit, and was inoperable when month end readings were recorded.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____



Date: 07-05-2012

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>																		
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 745

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-11-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>20.9</u>

4. Wellfield Data:

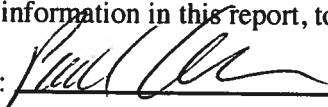
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1111	399,551	8.9
Total:	<u>399,551</u>	<u>8.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>399,551</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2012

**Land Observation Report date:
TFG-ASW - Arroyo Seco**

1. Reporting Period: Business Month April Year 2012

2. Date compliance sampling performed 04-11-2012

3. Weather Conditions:

Average air tempertaure (°C):	<u>10.7</u>
6-day total precipitation (in):	<u>0.45</u>
Average wind speed/direction (mph):	<u>4/ S</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-17-2012

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 718

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-08-2012
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 21.1

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1111	381,528	8.8
Total:	<u>381,528</u>	<u>8.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>381,528</u>

6. Comments:

System secured from 5/30/12 to 6/1/12 for carbon change.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-06-2012

**Land Observation Report date:
TFG-ASW - Arroyo Seco**

1. Reporting Period: Business Month May Year 2012

2. Date compliance sampling performed 05-08-2012

3. Weather Conditions:

Average air tempertaure (°C):	<u>16.2</u>
6-day total precipitation (in):	<u>0.00</u>
Average wind speed/direction (mph):	<u>6/SSW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-07-2012

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 672

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-06-2012
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 21.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1111	354,699	8.8
Total:	<u>354,699</u>	<u>8.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>354,699</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-02-2012

**Land Observation Report date:
TFG-ASW - Arroyo Seco**

1. Reporting Period: Business Month June Year 2012

2. Date compliance sampling performed 06-06-2012

3. Weather Conditions:

Average air tempertaure (°C):	<u>17</u>
6-day total precipitation (in):	<u>0.13</u>
Average wind speed/direction (mph):	<u>6/ SW</u>

4. Receiving Data:

Sample <u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 08-07-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>																								
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	15										
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>										

Total monthly time facility operated (hours): 708

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-11-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>21.3</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1806	123,031	2.9
W-1807	138,060	4.2
Total:	<u>261,091</u>	<u>7.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>261,091</u>

6. Comments:

System secure from 4/14/12 to 4/16/12 due to high sump alarm.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 748

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-08-2012

Influent pH: 7.0

Effluent pH: 7.0

Effluent Temperature (°C): 21.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1806	122,822	2.9
W-1807	142,842	4.1
Total:	<u>265,664</u>	<u>7.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>265,664</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-06-2012

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): 700

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **06-06-2012**
Influent pH: **7.0**
Effluent pH: **7.0**
Effluent Temperature (°C): **21.2**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1806	89,585	2.1
W-1807	165,687	4.0
Total:	<u>255,272</u>	<u>6.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>255,272</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-02-2012**

**Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406**

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>																			
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>					
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>					

Total monthly time facility operated (hours): 751

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-04-2012</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.5</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1309	195,983	4.4
W-1310	442,249	10.0
Total:	<u>638,232</u>	<u>14.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>638,232</u>

6. Comments:

NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Betty J. Field Date: 05-09-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 754

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-02-2012
Influent pH: 7.4
Effluent pH: 7.5
Effluent Temperature (°C): 22.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1309	195,468	4.4
W-1310	446,176	10.0
Total:	<u>641,644</u>	<u>14.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>641,644</u>

6. Comments:

NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy V. Kidd Date: 06-13-2012

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 700

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-14-2012
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1309	71,671	4.2
W-1310	413,995	10.1
Total:	<u>485,666</u>	<u>14.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>485,666</u>

6. Comments:

W-1309 was secured on 6-12-12 at 650.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kralch Date: 07-18-2012

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>																
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>		
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	24	25	26	27	28	29	30		

Total monthly time facility operated (hours): 572

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-04-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>21.3</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1801	104,194	3.1
Total:	<u>104,194</u>	<u>3.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>104,194</u>

6. Comments:

System secured on 4/23/12 to remove pump from W-1801 and develop well.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Paul Ce Date: 05-01-2012

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	28	<u>29</u>	<u>30</u>	<u>31</u>

Total monthly time facility operated (hours): 125

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-30-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>23.9</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1801	30,242	3.8
Total:	<u>30,242</u>	<u>3.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>30,242</u>

6. Comments:

System secure from 4/23/12 to 5/24/12 for W-1801 development and bio-fouling treatment. System secure from 5/27/12 to 5/29/12 due to low flow alarm.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-06-2012**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 675

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-07-2012
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 23.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1801	171,043	4.5
Total:	<u>171,043</u>	<u>4.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>171,043</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-02-2012

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	30	31															
April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1410	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____

Date: **04-30-2012**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1410	0	0.0
<hr/>		
Total:	<u>0</u>	<u>0.0</u>

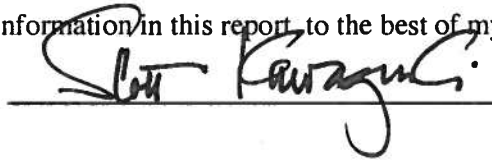
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-31-2012**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1410	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-29-2012**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>31</u>														
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 744

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1615	250	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	100	0.0
SVB-518-201	0	0.0
SVB-518-204	0	0.0
Total:	<u>350</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>350</u>

6. Comments:

Groundwater extracted from this facility is treated at TFB main, therefore compliance sampling is not required.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-21-2012

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 728

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1615	272	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	90	0.0
SVB-518-201	0	0.0
SVB-518-204	0	0.0
Total:	<u>362</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>362</u>

6. Comments:

Air supply to pneumatic pumps turned off 5/22/12 at 15:20 hrs. to allow well levels to recover for groundwater sample collection. Pneumatic pumps were back in service 5/23 at 08:30 hrs. Compliance sampling at this facility is not required, water is transferred to TFB Main for treatment.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2012

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **696**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1615	135	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	48	0.0
SVB-518-201	0	0.0
SVB-518-204	0	0.0
Total:	<u>183</u>	<u>0.0</u>


5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>183</u>

6. Comments:

Compliance sampling at this facility is not required, water is transferred to TFB Main for treatment.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-06-2012**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	31																
April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1302-2	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-1 injection</u>	<u>W-1302-1</u>	<u>0</u>

6. Comments:

The treatment facility was shut down on 7/27/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Field Date: 05-09-2012

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1302-2	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-1 injection</u>	<u>W-1302-1</u>	<u>0</u>

6. Comments:

The treatment facility was shut down on 7/27/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kuldorf Date: 06-13-2012

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1302-2	0	0.0
Total:	<u>0</u>	<u>0.0</u>

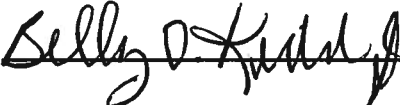
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-1 injection</u>	<u>W-1302-1</u>	<u>0</u>

6. Comments:

The treatment facility was shut down on 7/27/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-17-2012

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	<u>30</u>	<u>31</u>																	
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	15				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 730

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-18-2012</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>19.4</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1108	214,682	4.9
W-1415	0	0.0
Total:	<u>214,682</u>	<u>4.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>214,682</u>

6. Comments:

Facility was secured at 0800 hours on 4-14-12 to replace carbon canisters and facility was restarted on 4-16-12.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2012

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 714

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-01-2012
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 19.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1108	175,602	5.5
W-1415	0	0.0
Total:	<u>175,602</u>	<u>5.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>175,602</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-01-2012

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28

Total monthly time facility operated (hours): 684

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-04-2012
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 19.1

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1108	145,695	3.8
W-1415	2,466	1.3
Total:	<u>148,161</u>	<u>5.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>148,161</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-12-2012

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

March	31														
April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1604	0	0.0
W-1605	0	0.0
W-1608	0	0.0
W-1609	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-2 injection</u>	<u>W-1610</u>	<u>0</u>

6. Comments:

The treatment facility was shut down on 8/31/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy O. Lyndall Date: 05-09-2012

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1604	0	0.0
W-1605	0	0.0
W-1608	0	0.0
W-1609	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

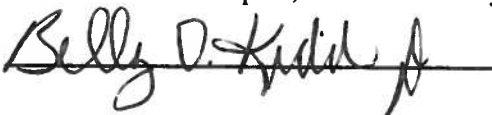
<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-2 injection</u>	<u>W-1610</u>	<u>0</u>

6. Comments:

The treatment facility was shut down on 8/31/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:

 Date: 06-13-2012

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treated ground water was discharged

June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1604	0	0.0
W-1605	0	0.0
W-1608	0	0.0
W-1609	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-2 injection</u>	<u>W-1610</u>	<u>0</u>

6. Comments:

The treatment facility was shut down on 8/31/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Field Date: 07-17-2012

Self-Monitoring Report

LLNL Vapor Extraction System 08 (VES08)

AREA VTF406-HS

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treatment facility operated

March	<u>31</u>																												
April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>														
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>														

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-217	647,484	14.7	-2.84	61	733
W-514-2007A	0	0.0	0	0	0
W-514-2007B	466,799	10.5	-3.17	61	733
Total:	<u>1,114,283</u>	<u>25.2</u>			

4. Comments:

Facility was discovered shutdown 4/30 due to an unplanned power outage that occurred 4/29 at 16:41 hrs. End month volumes for extraction wells were calculated from individual flow measurements, and not derived from facility totalizer values.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-03-2012

Self-Monitoring Report

LLNL Vapor Extraction System 08 (VES08)

AREA VTF406-HS

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-217	688,030	15.4	-2.87	56	707
W-514-2007A	0	0.0	0	0	0
W-514-2007B	510,754	10.6	-3.23	56	707
Total:	<u>1,198,784</u>	<u>26.0</u>			

4. Comments:

Facility discovered shutdown 4/30/12 due to failed battery in CPU. Facility was restarted 5/2/12.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: 06-05-2012

Self-Monitoring Report

LLNL Vapor Extraction System 08 (VES08)

AREA VTF406-HS

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treatment facility operated

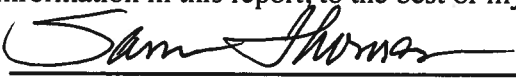
June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-217	667,722	15.5	-2.69	63	678
W-514-2007A	0	0.0	0	0	0
W-514-2007B	485,466	10.3	-3.05	63	678
Total:	<u>1,153,188</u>	<u>25.8</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-05-2012

Self-Monitoring Report

LLNL Vapor Extraction System 05 (VES05)

AREA VTF511

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treatment facility operated

March	<u>31</u>																														
April	<table style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><u>01</u></td><td style="text-align: center;"><u>02</u></td><td style="text-align: center;"><u>03</u></td><td style="text-align: center;"><u>04</u></td><td style="text-align: center;"><u>05</u></td><td style="text-align: center;"><u>06</u></td><td style="text-align: center;"><u>07</u></td><td style="text-align: center;"><u>08</u></td><td style="text-align: center;"><u>09</u></td><td style="text-align: center;"><u>10</u></td><td style="text-align: center;"><u>11</u></td><td style="text-align: center;"><u>12</u></td><td style="text-align: center;"><u>13</u></td><td style="text-align: center;"><u>14</u></td><td style="text-align: center;"><u>15</u></td> </tr> <tr> <td style="text-align: center;"><u>16</u></td><td style="text-align: center;"><u>17</u></td><td style="text-align: center;"><u>18</u></td><td style="text-align: center;"><u>19</u></td><td style="text-align: center;"><u>20</u></td><td style="text-align: center;"><u>21</u></td><td style="text-align: center;"><u>22</u></td><td style="text-align: center;"><u>23</u></td><td style="text-align: center;"><u>24</u></td><td style="text-align: center;"><u>25</u></td><td style="text-align: center;"><u>26</u></td><td style="text-align: center;"><u>27</u></td><td style="text-align: center;"><u>28</u></td><td style="text-align: center;"><u>29</u></td><td style="text-align: center;"><u>30</u></td> </tr> </table>	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>
<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>																	
<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>																	

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-2204	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2207A	1,064	0.0	0	0	1
W-2207B	358,288	7.0	-6	68	719
W-2208A	1,072	0.0	0	0	1
W-2208B	228,752	6.4	-5.5	68	719
Total:	<u>589,176</u>	<u>13.4</u>			

4. Comments:

Facility shutdown 4/3/12 to replace carbon filters. Facility was restarted 4/4/12 @ 14:30 hrs. Vapor samples collected from W-2207A and W-2208A 4/24/12.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2012

Self-Monitoring Report

LLNL Vapor Extraction System 05 (VES05)

AREA VTF511

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treatment facility operated

May 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-2204	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	418,289	9.3	-5.1	68	742
W-2208A	0	0.0	0	0	0
W-2208B	289,776	7.1	-4.6	68	742
Total:	<u>708,065</u>	<u>16.3</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2012

Self-Monitoring Report

LLNL Vapor Extraction System 05 (VES05)

AREA VTF511

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treatment facility operated

June 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-2204	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	384,486	9.4	-5	85	677
W-2208A	0	0.0	0	0	0
W-2208B	311,413	7.3	-4.5	85	677
Total:	<u>695,899</u>	<u>16.7</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-05-2012

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month April Week: 1 Year 2012

2. Dates (in **bold** and underline) treatment facility operated

March 31
April 01 02 03 04 05 06

3. Wellfield Data:

<u>Source</u>	<u>Weekly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-1615	37,185	3.7	-20	40	168
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	7,035	0.7	-21	40	168
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>44,220</u>	<u>4.4</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2012

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month April **Week: 2** Year **2012**

2. Dates (in **bold** and underline) treatment facility operated


April **07** **08** **09** **10** **11** **12** **13**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	39,335	3.9	-19.5	44	168
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	7,060	0.7	-20.8	44	168
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>46,395</u>	<u>4.6</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-01-2012**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month April **Week: 3** Year **2012**

2. Dates (in **bold** and underline) treatment facility operated

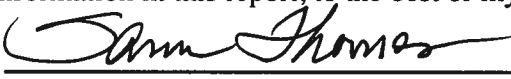
April **14** **15** **16** **17** **18** **19** **20**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	38,281	3.8	-19.5	54	168
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	7,052	0.7	-21.5	54	168
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>45,333</u>	<u>4.5</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-01-2012**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month April **Week: 4** Year **2012**

2. Dates (in **bold** and underline) treatment facility operated

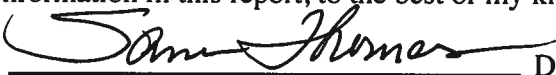
April **21** **22** **23** **24** **25** **26** **27**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	39,289	3.9	-19.5	45	168
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	6,044	0.6	-21.8	48	168
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>45,333</u>	<u>4.5</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-01-2012**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month May **Week: 1** Year **2012**

2. Dates (in **bold** and underline) treatment facility operated

April 28 29 30
May 01 02 03 04

3. Wellfield Data:

<u>Source</u>	<u>Weekly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-1615	38,486	3.8	-19.7	50	169
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	6,077	0.6	-21.7	50	169
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>44,563</u>	<u>4.4</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2012**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month May **Week: 2** Year **2012**

2. Dates (in **bold** and underline) treatment facility operated

May **05** **06** **07** **08** **09** **10** **11**


3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	37,916	3.8	-19.5	64	166
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	5,987	0.6	-21.8	64	166
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>43,903</u>	<u>4.4</u>			

4. Comments:

Transferred 793 gallons of groundwater to TFB Main for treatment.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2012**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month May Week: **3** Year **2012**

2. Dates (in **bold** and underline) treatment facility operated


May **12** **13** **14** **15** **16** **17** **18**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	38,600	3.8	-19.5	52	169
W-518-1913	0	0.0	0	0	169
W-518-1914	0	0.0	0	0	169
W-518-1915	7,111	0.7	-21.5	52	169
SVB-518-201	0	0.0	0	0	169
SVB-518-204	0	0.0	0	0	169
Total:	<u>45,711</u>	<u>4.5</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2012**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month May **Week: 4** Year **2012**

2. Dates (in **bold** and underline) treatment facility operated

May **19** **20** **21** **22** **23** **24** **25**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	37,207	3.7	-19.7	49	168
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	7,039	0.7	-21.7	49	168
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>44,246</u>	<u>4.4</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2012**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month June **Week: 1** Year **2012**

2. Dates (in **bold** and underline) treatment facility operated

May **26** **27** **28** **29** **30** **31**
June **01**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	36,612	3.6	-19.8	80	170
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	7,119	0.7	-21.5	80	170
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>43,731</u>	<u>4.3</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-06-2012**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month June Week: 2 Year 2012

2. Dates (in **bold** and underline) treatment facility operated

June **02** **03** **04** **05** **06** **07** **08**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	36,007	3.6	-19.8	61	167
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	7,001	0.7	-21.5	61	167
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>43,008</u>	<u>4.3</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-06-2012**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month June **Week: 3** Year 2012

2. Dates (in **bold** and underline) treatment facility operated

June **09** **10** **11** **12** **13** **14** **15**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	36,526	3.6	-19.5	68	169
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	7,102	0.7	-21.5	68	169
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>43,628</u>	<u>4.3</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-06-2012

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month June **Week: 4** Year 2012

2. Dates (in **bold** and underline) treatment facility operated

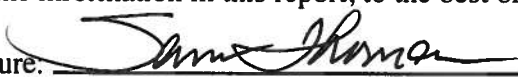
June **16** **17** **18** **19** **20** **21** **22**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	37,052	3.7	-19.5	52	167
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	8,011	0.8	-21.5	52	167
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>45,063</u>	<u>4.5</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-06-2012**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month June **Week: 5** Year 2012

2. Dates (in **bold** and underline) treatment facility operated

June **23** **24** **25** **26** **27** **28** **29**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	37,496	3.7	-19.5	58	169
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	9,121	0.9	-21.5	58	169
SVB-518-201	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
Total:	<u>46,617</u>	<u>4.6</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-06-2012**

Self-Monitoring Report

LLNL Vapor Extraction System 01 (VES01)

AREA VTF5475

1. Reporting Period: Business Month April Year 2012

2. Dates (in **bold** and underline) treatment facility operated

March	31														
April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>VTF5475 Vapor Injection Well</u>	<u>SVI-ETS-505</u>	<u>0</u>

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY2008 funding reduction. The facility will be restarted once a solution for mixed waste generation is implemented.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy O. Kukul Date: 05-09-2012

Self-Monitoring Report

LLNL Vapor Extraction System 01 (VES01)

AREA VTF5475

1. Reporting Period: Business Month May Year 2012

2. Dates (in **bold** and underline) treatment facility operated

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Discharge Information:

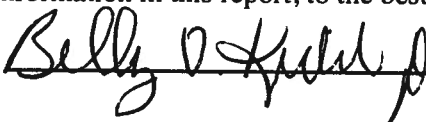
<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>VTF5475 Vapor Injection Well</u>	<u>SVI-ETS-505</u>	<u>0</u>

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY2008 funding reduction. The facility will be restarted once a solution for mixed waste generation is implemented.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:



Date: 06-13-2012

Self-Monitoring Report

LLNL Vapor Extraction System 01 (VES01)

AREA VTF5475

1. Reporting Period: Business Month June Year 2012

2. Dates (in **bold** and underline) treatment facility operated

June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>VTF5475 Vapor Injection Well</u>	<u>SVI-ETS-505</u>	<u>0</u>

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY2008 funding reduction. The facility will be restarted once a solution for mixed waste generation is implemented.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kula Date: 07-17-2012

Attachment C

Figures

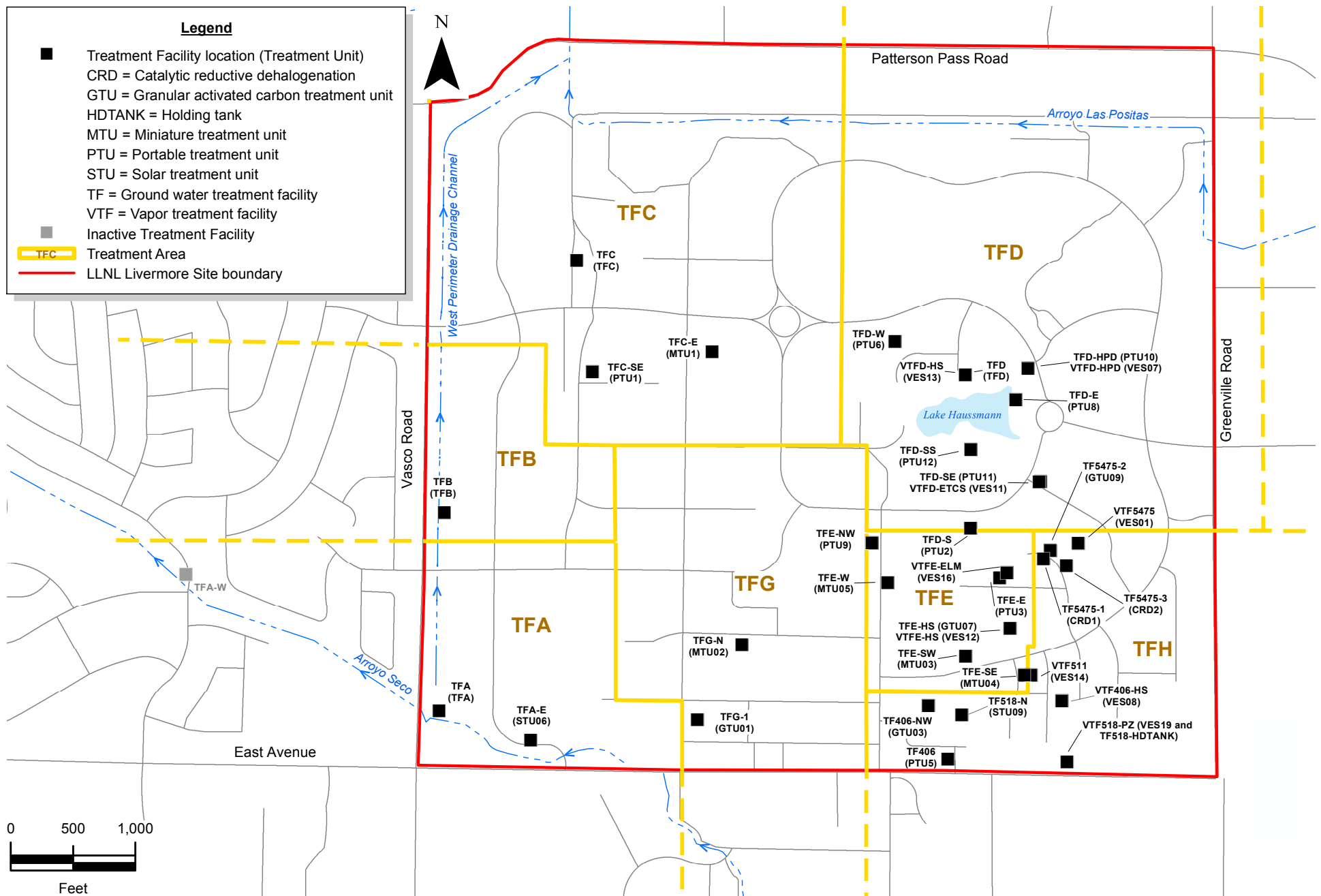


Figure 1. Livermore Site treatment areas and treatment facility locations.

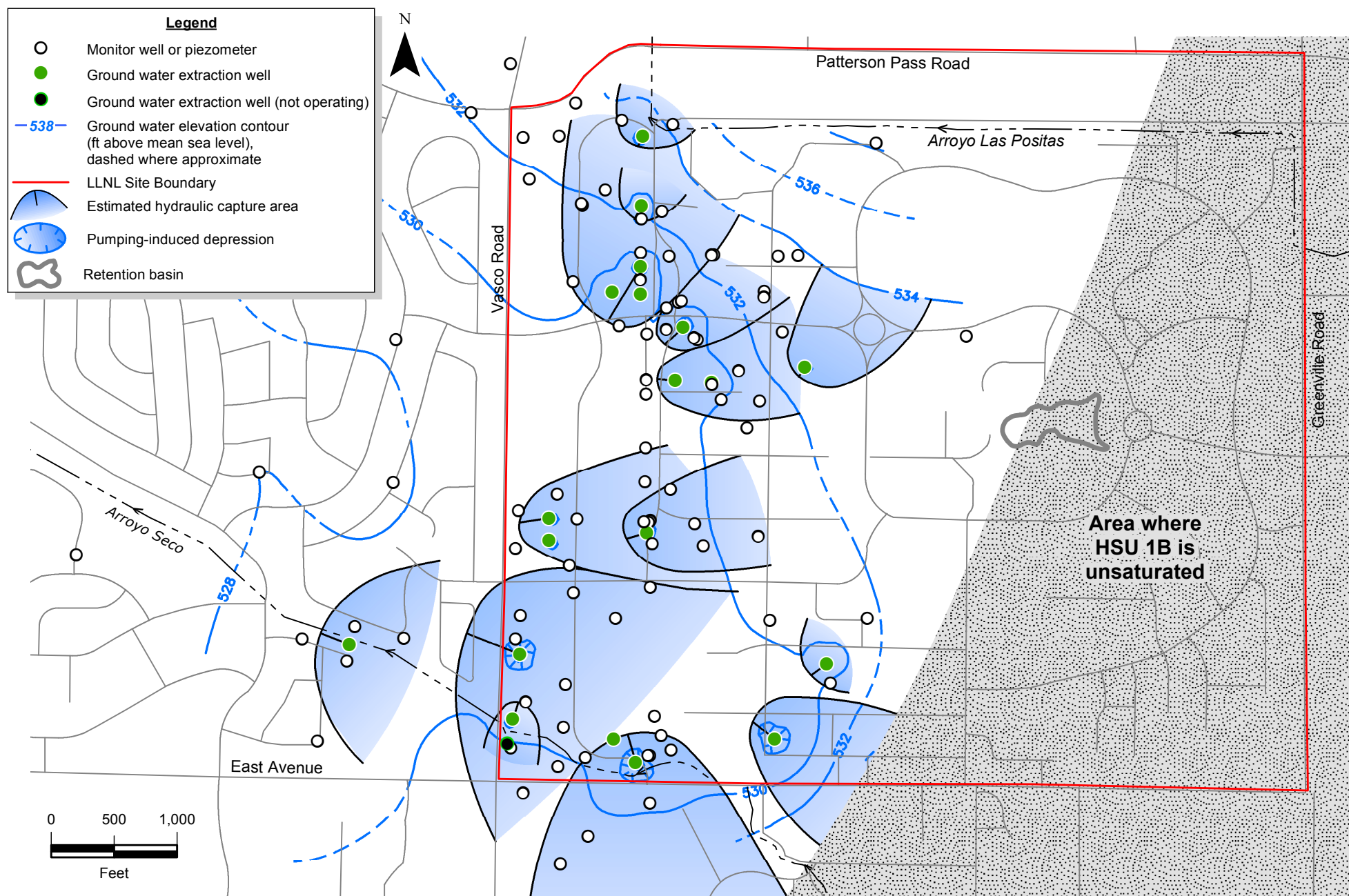


Figure 2. Ground water elevation contour map based on 110 wells completed within HSU-1B showing estimated hydraulic capture areas, LLNL and vicinity, second quarter 2012.

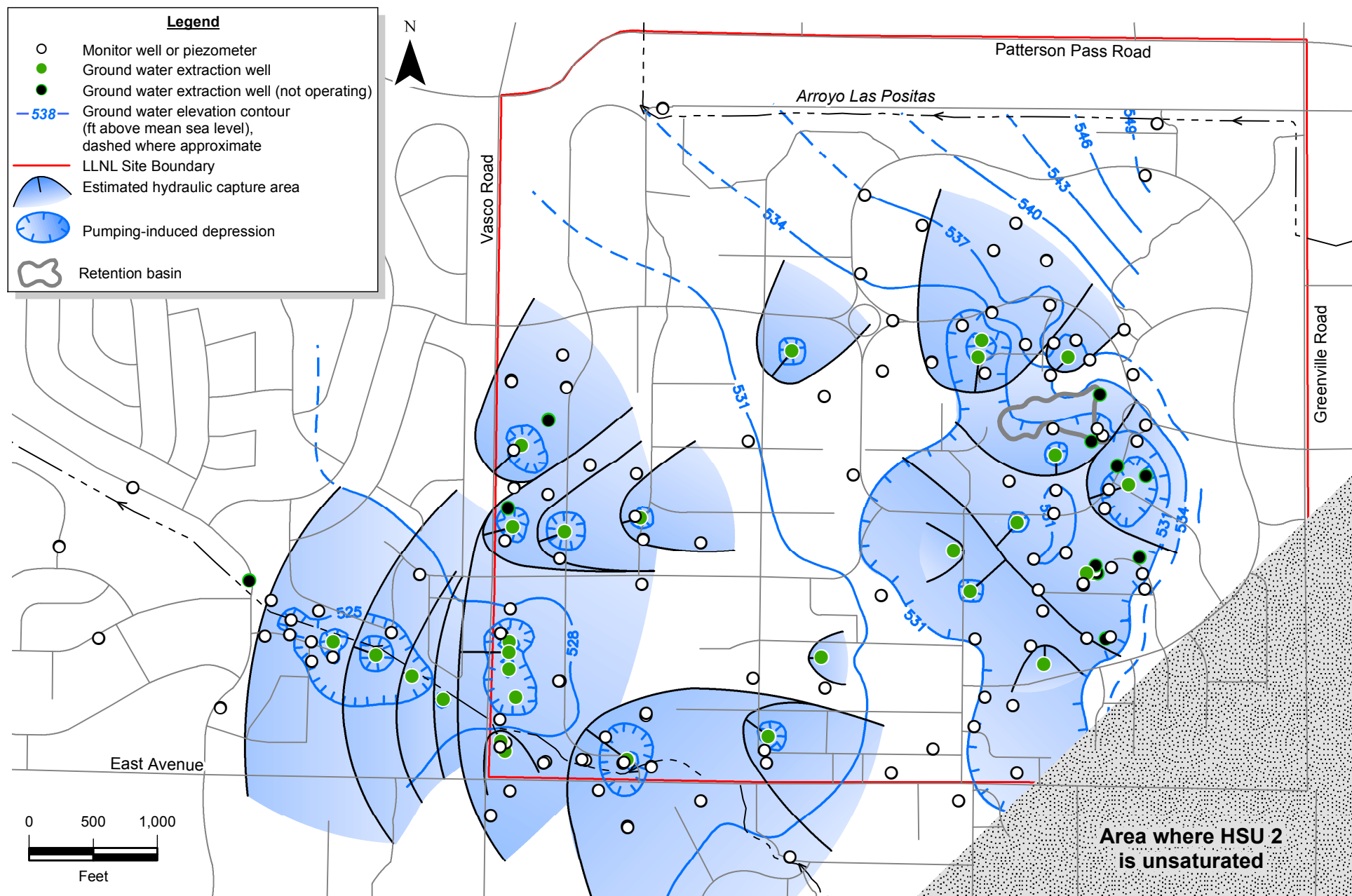


Figure 3. Ground water elevation contour map based on 161 wells completed within HSU-2 showing estimated hydraulic capture areas, LLNL and vicinity, second quarter 2012.

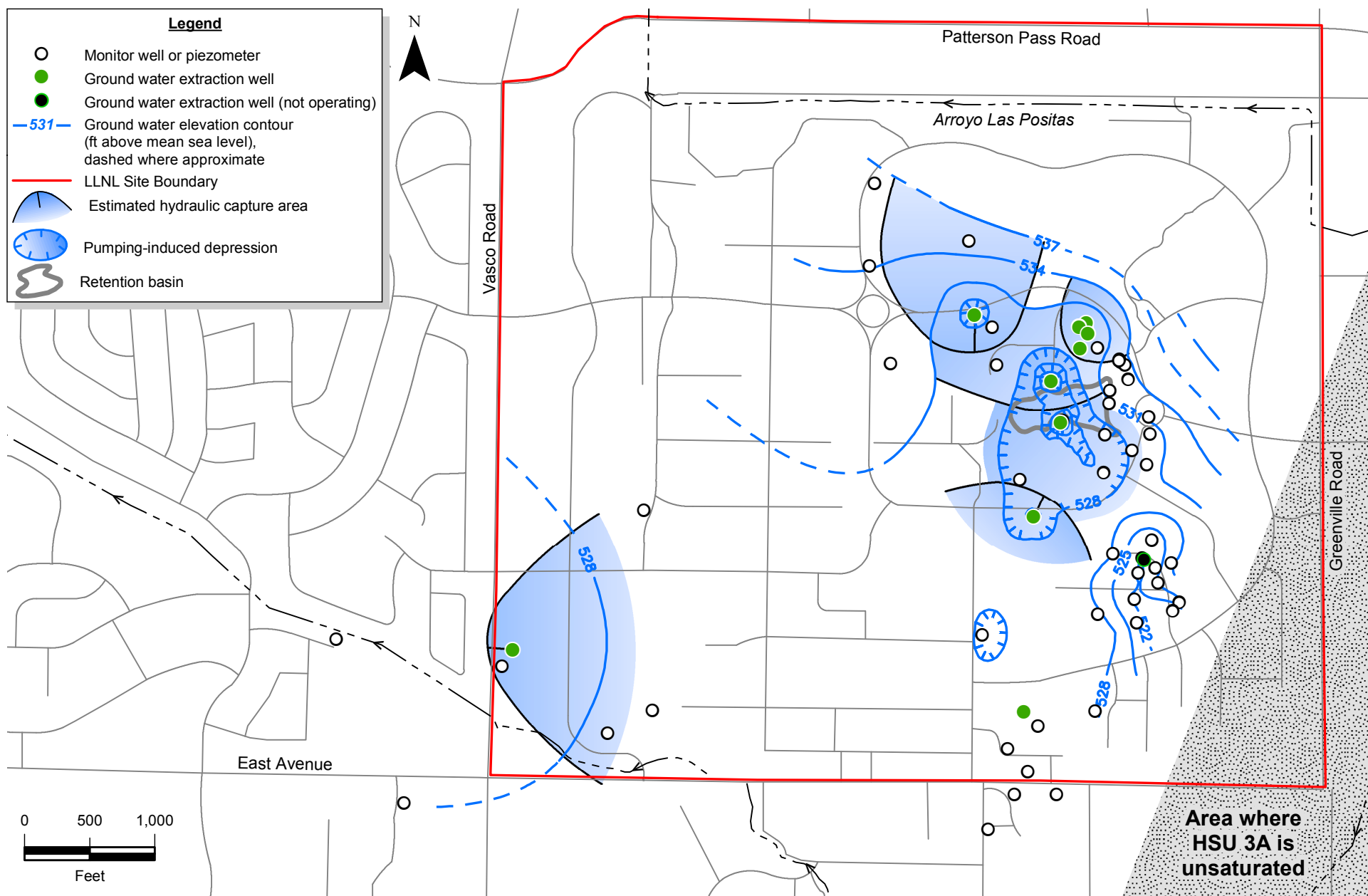


Figure 4. Ground water elevation contour map based on 56 wells completed within HSU-3A showing estimated hydraulic capture areas, LLNL and vicinity, second quarter 2012.

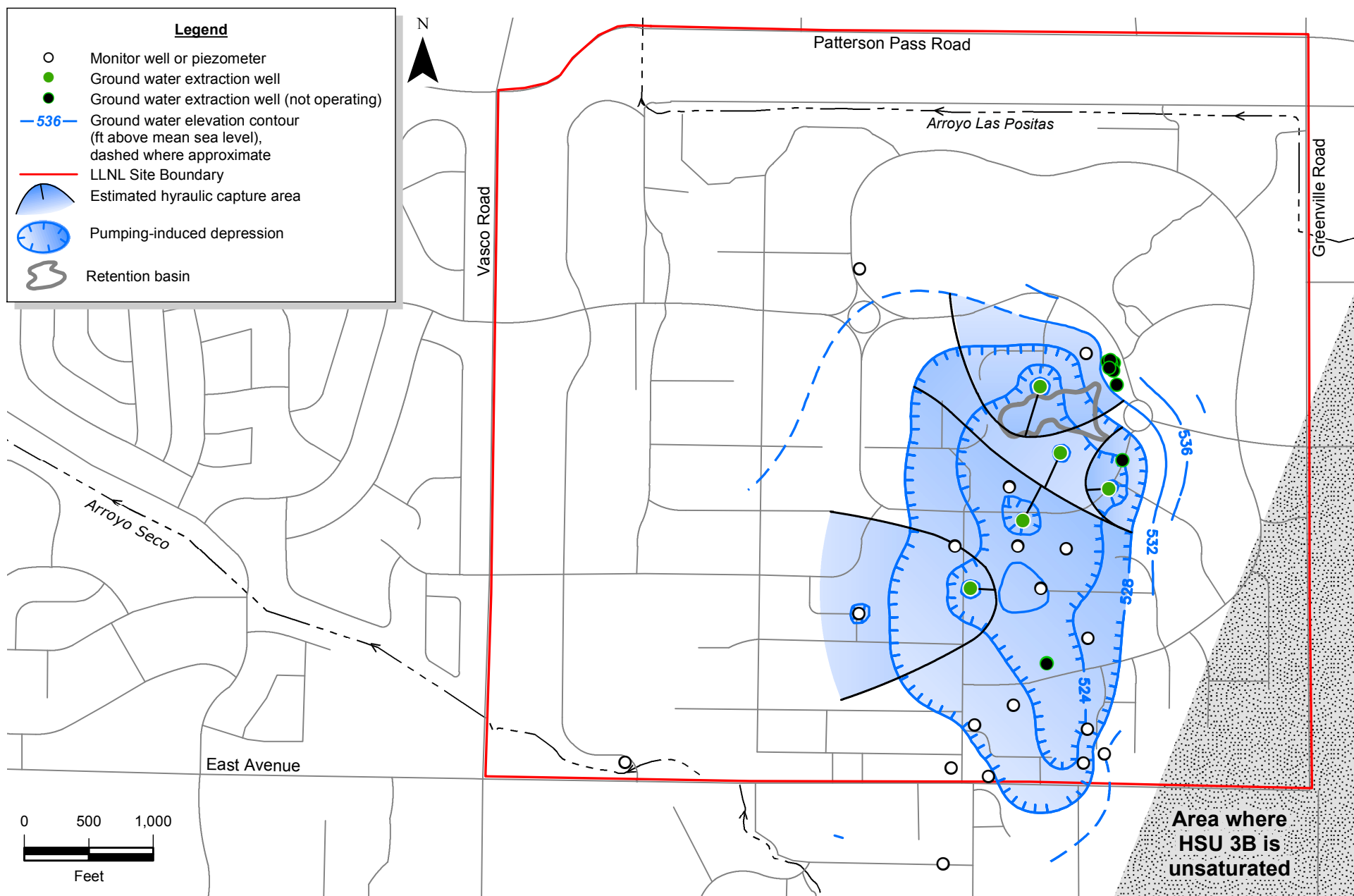


Figure 5. Ground water elevation contour map based on 33 wells completed within HSU-3B showing estimated hydraulic capture areas, LLNL and vicinity, second quarter 2012.

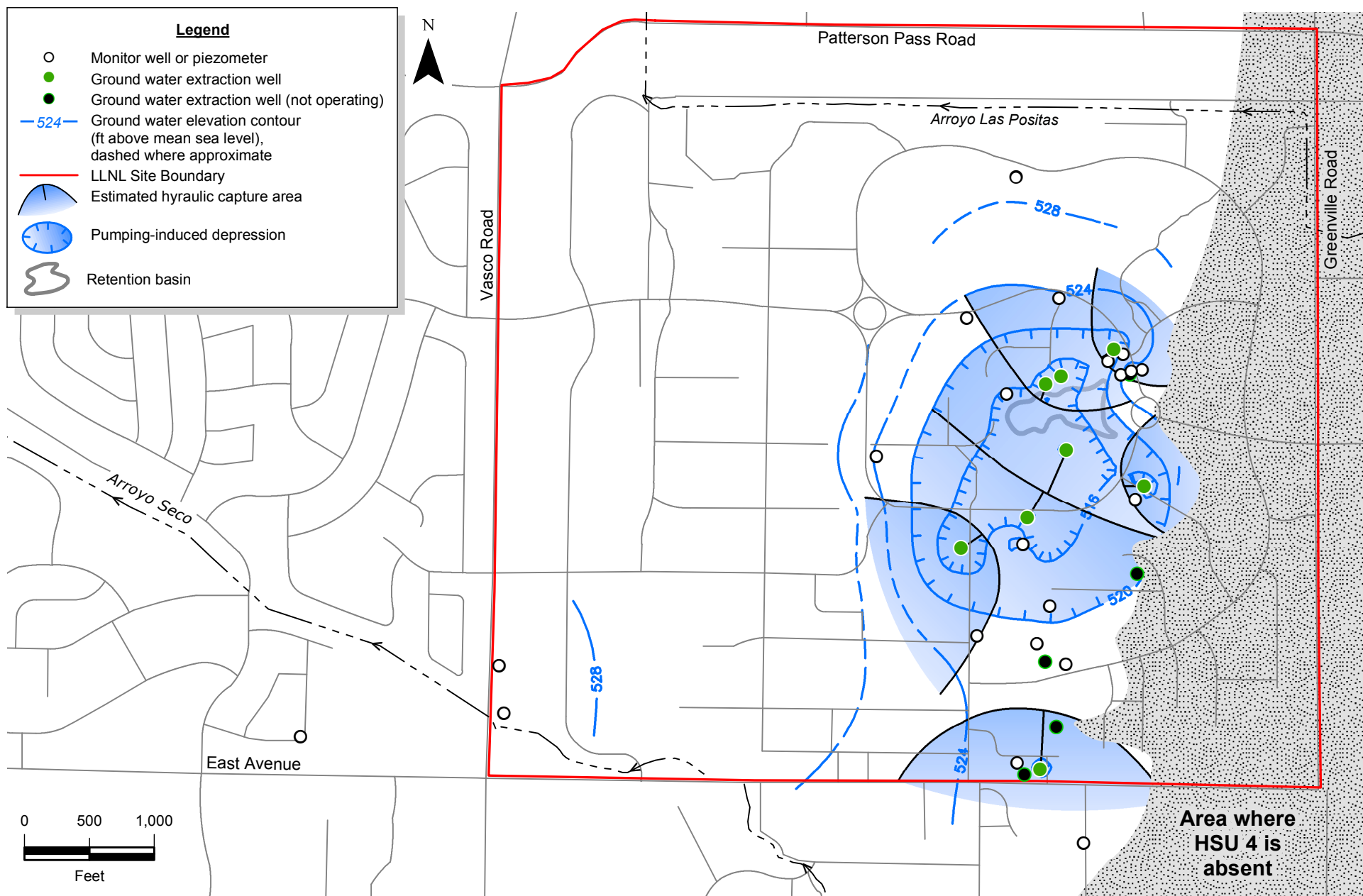


Figure 6. Ground water elevation contour map based on 35 wells completed within HSU-4 showing estimated hydraulic capture areas, LLNL and vicinity, second quarter 2012.

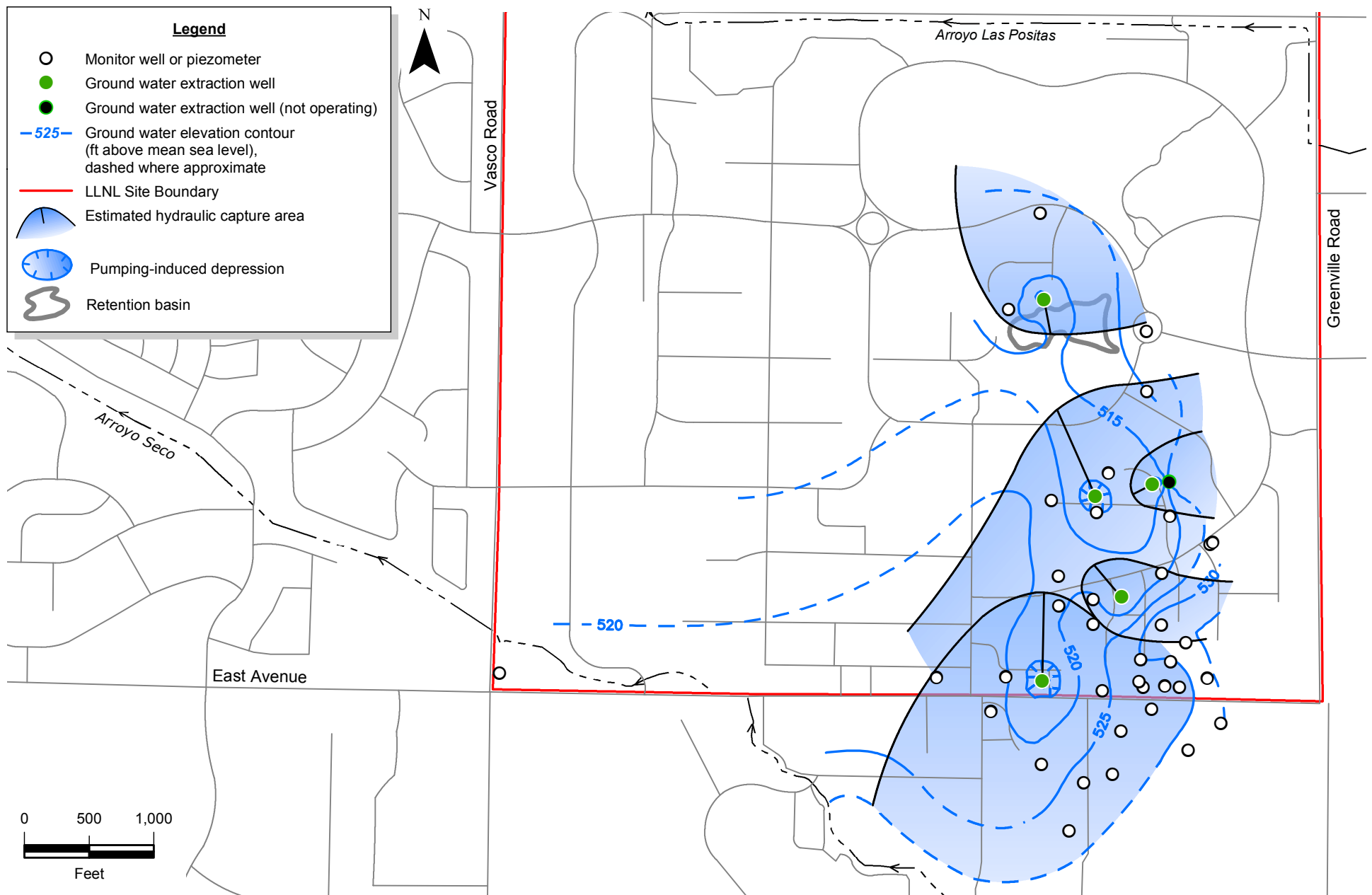


Figure 7. Ground water elevation contour map based on 43 wells completed within HSU-5 showing estimated hydraulic capture areas, LLNL and vicinity, second quarter 2012.